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ABSTRACT

Prepared for the use of elementary and secondary school teachers, this catalog is designed to provide information about environmental education materials which will aid in classroom presentations and in curriculum development. Subject areas cover conservation and natural resources, ecology and ecosystems, environmental action and survival, environmental laboratories, mapping, outdoor education, pollution, the urban environment, and wildlife environments. Items indexed and annotated are coded as to curriculum guides, pamphlets, charts and posters, paperback books, 16mm films, sound filmstrips, environmental games, reference books, magazines and journals, geographical survey maps, picture stories, records and tapes, and slides. This work was prepared under an ESEA Title III contract for Project Outreach, Phoenix, Arizona. (BL)

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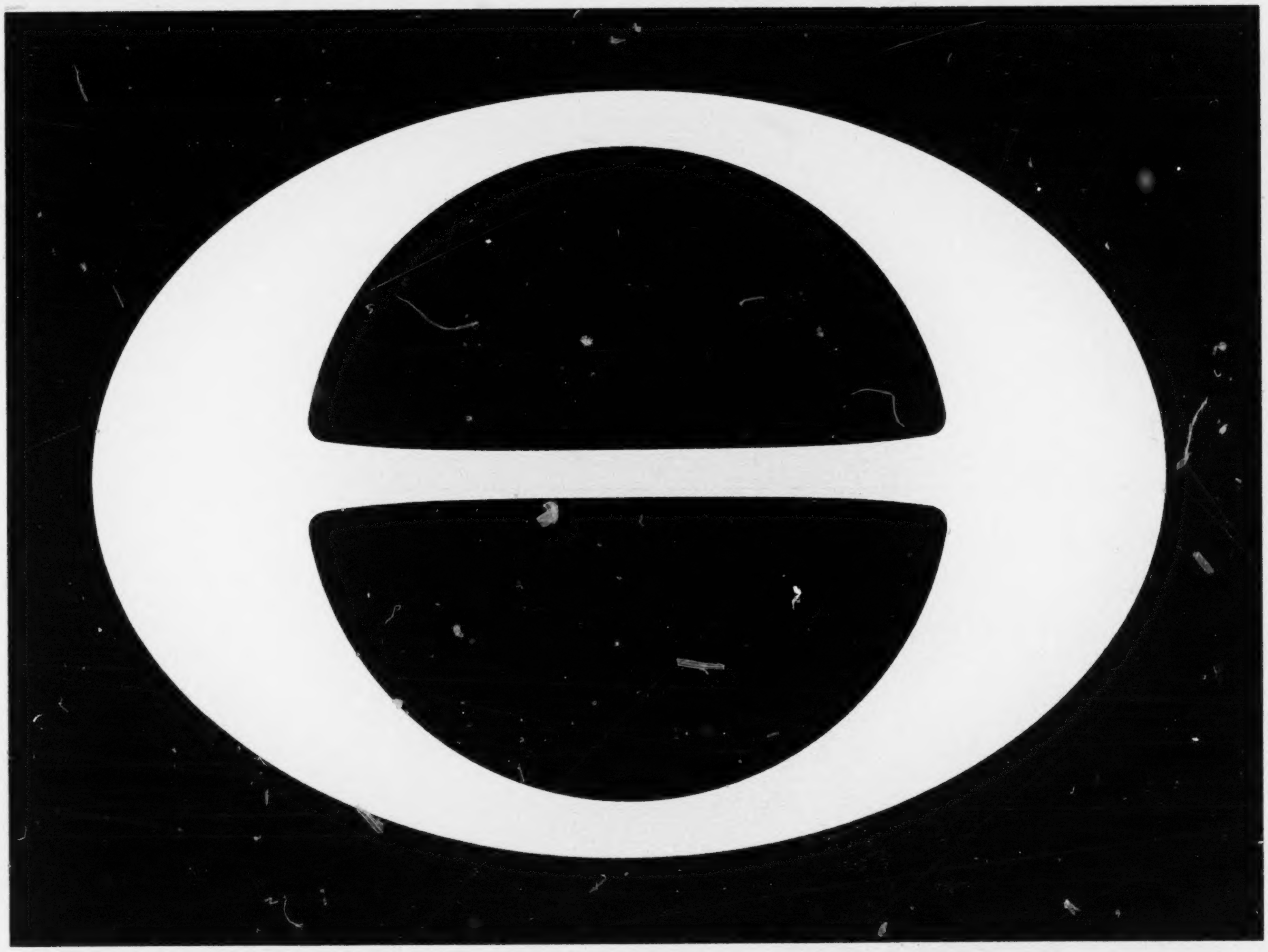
ENVIRONMENTAL



EDUCATION

SE 012 590

ENVIRONMENTAL EDUCATION

RESOURCE CATALOG

prepared by

Project Outreach

in cooperation with

Phoenix Union High School System

and

Phoenix Area Elementary School Districts

Funded Through
ESEA Title III
Public Law 89-10

Introduction

This catalog has been prepared for the use of elementary and secondary school teachers in the city of Phoenix. It is the first attempt in Phoenix to provide for educators a comprehensive resource center dealing with environmental education materials. The Environmental Education Resource Center is designed to provide teachers with material which will aid in classroom presentations and in curriculum development.

Teachers may request material from the Environmental Education Resource Center on a loan basis.

The Resource Center is funded through ESEA Title III and is administered under Project Outreach, an Environmental Education program of the Phoenix Union High School System. We encourage your use of the material in this catalog and hope that it will be of value.

How To Order Material

Material from this catalog may be ordered by calling the Environmental Education Resource Center, located at the District Service Office of the Phoenix Union High School System, at 252-3911 Ext. 275.

Give the following information:

1. Name
2. District
3. School
4. Title of material
5. Date requested
6. Alternate request date

Material you request will be delivered to you at your school via the inter-school mail system which links the Phoenix Union High School System with your district. Please return this material on the date requested by way of the inter-school mail delivery.

Project Outreach asks that you take care in properly maintaining all material so that it will be in good condition for others to use. PLEASE SEE THAT MATERIALS ARE RETURNED COMPLETE AND ON THE SCHEDULED DUE DATE.

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KEY

Code A -------------------- Curriculum Guides

Code B -------------------- Pamphlets

Code C -------------------- Charts and Posters

Code D -------------------- Paperbacks

Code E -------------------- 16MM Films

Code F -------------------- Sound Filmstrips

Code G -------------------- Environmental Games

Code H -------------------- Reference Books

Code J -------------------- Magazines and Journals

Code M -------------------- Geographical Survey Maps of Arizona

Code P -------------------- Picture Stories

Code R -------------------- Records and Tapes

Code S -------------------- Slides

CONSERVATION OF NATURAL RESOURCES

Cat. No. Description

A066 Art and Conservation Teaching to Improve Man's Environment
Indiana State Department of Public Instruction. A resource guide.

P35 Common Rocks
Singer SVE
1. Sedimentary Rocks
2. Igneous Rocks
3. Metamorphic Rocks
4. Fossils
5. Calcite Minerals
6. Feldspar Minerals
7. Silica Minerals
8. Mica and Dark Minerals

F070 Coniferous Forest
Ecology of the United States Series. Ealing Corporation. With this series of film-loops you can show your students the basic characteristics of the terrain, the marvelously adapted plant/animal life. Super 8 cartridge color film-loop.

F004 Conservation for Beginners
Singer SVE Educational. Easy-to-read filmstrips. Teacher's guide.
1. The Lamb and the Blue Bells
2. A Picnic for Dick and His Friends
3. The Deer and the Haystack
4. The Muddy Raindrops
5. Sonny Squirrell and Pine Trees
6. Forests for the Future

B067 Conservation--Everyone's Job
Copyright 1970. J. Weston Walch, Publisher. Christobel Cordell. A guide book for teaching conservation of human resources, air, water, soil, forests, minerals, fisheries, and wildlife. Grades K-12.

F007 The Conservation of Our Resources
Eye Gate. Teacher Guide. Filmstrips and recordings.
1. This Land of Ours
2. The Waste of Our Resources
3. The Need for Conservation
4. Water and Its Conservation
5. Soil and Its Conservation
6. The Conservation of Our Forests
7. The Conservation of Wildlife
8. The Conservation of Minerals
9. The Conservation of Human Resources

F036 Conservation for Today's America
Singer, SVE. A comprehensive look at the importance of conserving natural resources, including the two vital areas of current concern--urban and land conservation. It takes a seroues look at what can be done to resolve the problems. Full-color filmstrips. Inter-Jr. High Set of 7 filmstrips and 4 records.
1. Soil Conservation Today
2. Forest Conservation Today
3. Water Conservation Today
4. Wildlife Conservation Today
5. Mineral Conservation Today
6. Urban Conservation Today
7. Land Conservation Today

CONSERVATION OF NATURAL RESOURCES

Cat. No.	Description
F008	Conserving Our Natural Resources Through photographs and diagrams, the students see visual definitions of conservation; how an ear of corn needs a barrel of water to grow, how forest fires destroy life, how soil turns into mud and dust, how uranium and plastics may replace the nonrenewable energy of coal. Teacher's guide. Filmstrip series. 1. What is Conservation 2. Saving Our Soil 3. Enough Water for Everyone 4. Improving Our Grasslands 5. Using Our Forests Wisely 6. Giving Our Wildlife a Chance 7. Using Our Minerals Wisely
F069	Decidous Forest Ecology of the United States Series. Ealing Corporation. With this series of film-loops you can show your students the basic characteristics of the terrain, the marvelously adapted plant/animal life. Super 8 cartridge color film-loop.
A080	Earth Corps Ecology/Conservation Study Kit Scholastic Book Services. The pupil is introduced to the science of ecology. In clear and simple yerms he is shown how all living things are inter-related to their environment. Kit includes: student activity books, transparencies, wall chart, and teaching manual. Kit II for grades 3-4. Kit II--EARTH IS OUR HOME.
A081	Earth Corps Ecology/Conservation Study Kit Scholastic Book Services. Continues in greater depth the study of the interdependence of animals and plants. The students look at some of the things that man has done to change his environment. Kit includes: student activity books, transparencies, wall chart, and a teaching manual. Kit III for grades 5-6. Kit III--SHARING THE EARTH.
D027	Environmental Conservation Copyright 1959, 1968. Published by John Wiley and Sons, Inc. By Raymond F. Dasmann. This book is an attempt to look at our environment and human problems from the viewpoint of conservation. It is an attempt to provide a factual basis on which action to improve the environment can be taken.
D016	Face of North America Copyright 1963. Harper and Row, Publishers. Peter Farb. This book is about the remarkable diversity of landscapes on the North American continent and the forces that produced them. The first section outlines geological processes that shaped the continent, the second is concerned with the seacoasts, the third deals with water falling upon the land, the fourth section is on mountains, and forests are discussed in the fifth section.

CONSERVATION OF NATURAL RESOURCES

Cat. No.	Description
H008	A Field Guide to Rocks and Minerals Copyright 1953, 1955, 1960. Published by Houghton Mifflin Company. By Frederick H. Pough. An authoritative guide to the identification of rocks and minerals in the field.
S005	Forest Resources J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative set of poster cards.
B023	Free and Inexpensive Materials for Teaching Conservation Published by North Louisiana Supplementary Education Center. FORESTS Its purpose is to provide teachers with information about possible sources of teaching materials that can be obtained free or with only a small expenditure of funds.
B024	Free and Inexpensive Materials for Teaching Conservation Published by North Louisiana Supplementary Education Center. SOILS AND WATER. Its purpose is to provide teachers with information about possible sources of teaching materials that can be obtained free or with only a small expenditure of funds.
B025	Free and Inexpensive Materials for Teaching Conservation Published by North Louisiana Supplementary Education Center. WILDLIFE AND FISH. Its purpose is to provide teachers with information about possible sources of teaching materials that can be obtained free or with only a small expenditure of funds.
A075	Guide to Environmental Education Published by the Conservation Committee of the Madison Public Schools, Madison, Wisconsin. Conservation of natural resources. Teachers are encouraged to develop teaching concepts in six major areas: soil, water, minerals, wildlife, plants, and recreation. Teachers can integrate conservation attitudes, appreciations, and basic understandings in science, social studies, and language arts, and other subject fields. Grades K-6.
A017	A Guide for Teaching Conservation and Resource Use education in the schools of Louisiana. Forest Section. A guide for teaching conservation.
A018	A Guide for Teaching Conservation and Resource Use education in the schools of Louisiana. Soil and Water. A guide for teaching conservation.
P34	Important Minerals Singer SVE 1. Copper Minerals 2. Native Gold 3. Iron & Manganese 4. Lead & Zinc Minerals 5. Tin & Aluminum 6. Uranium Minerals 7. Nickel, Titanium, Molybdenum, & Tungsten 8. Salt & Sulpher

CONSERVATION OF NATURAL RESOURCES

Cat. No.	Description
S009	Important Minerals J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.
A020	Integrating Conservation and Outdoor Education into the Curriculum Copyright 1965. Published by the Burgess Publishing Company. By William Stapp. Answers the questions of how we can best integrate an adequate program of conservation into a public school program. (Kindergarten through 12)
A026	Man in His Environment Copyright 1969. San Diego City Schools. Unit on conservation for grade 6. This unit is designed to encourage and promote commitment and motivation through direct, meaningful involvement.
B031	Management of Your Southwestern National Forests United States Department of Agriculture. William D. Hurst. To give a better understanding of forest service management. A brief summary for each zone, explaining the management objectives and direction for that unit.
S011B	Minerals and Metals J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative set of poster cards.
D018	Natural Resources and the Political Struggle
D019	Natural Resources for United States Growth Copyright 1967. Johns Hopkins Press. By Hans Landsberg. By the year 2000, America may have a population of more than 325 million people. Can their needs for food, clothing, shelter, and all of the goods and services that determine their level of living be met at no significant increase in cost? This book describes in brief and simplified form how Resources for the Future, Inc., sought to answer this question.
D034	One Third of the Nation's Land By the Public Land Law Review Commission. A report to the President and to the Congress by the Public Land Law Review Commission. June, 1970.
B066	Our Forest and You Western Wood Products Association, Portland, Oregon. 1. Facts About Ponderosa Pine 2. Facts About Sugar Pine 3. Facts About White Fir 4. Facts About Englemann Spruce 5. Facts About Western Larch 6. Facts About Idaho White Pine 7. Facts About Incense Cedar 8. Facts About Western Red Cedar 9. Facts About Douglas Fir of the Western Wood Region 10. Facts About Lodgepole Pine

CONSERVATION OF NATURAL RESOURCES

Cat. No.	Description
A032	Our Natural Resources Union County Outdoor Education Center. A follow-up material concerning our natural resources.
D035	Quest for Quality United States Department of the Interior Conservation Yearbook. Published by the United States Department of the Interior, Office of Secretary.
G12	Ranger Rick and the Great Forest Fire National Wildlife Federation. Grades 2-4.
G13	Ranger Rick's Color by Number National Wildlife Federation. Can be duplicated for classroom use.
H088	Reading the Woods Copyright 1969. Stackpole Company. By Vinson Brown. More surely than a palmist reads a lifeline, woods walkers--or those passing by car--can read the past, present, and a great deal about the immediate future of a given forest area with these explicit directions for finding and understanding the clues left by nature and man.
A048	Readings in Wildlife and Fish Conservation By Louisiana Wildlife and Fisheries Commission. A study designed for an experimental high school course.
B050	Resource Conservation Glossary Soil Conservation Society of America. A soil and water conservation glossary.
S013	Rocks J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.
F092	The Role of Trees in the Environment Imperial Film Company, Inc. This series provides the classroom with a serious photographic essay on the tree as a life form. The tree, rather than smaller plants, was chosen because the widespread geographic distribution of the trees is not confused by a widely varying basic structure. Inter-Jr. High. 4 filmstrips, 4 records. 1. Trees: Earth's Largest Life Forms 2. The Life Cycle of Trees 3. Trees and Physical Environment 4. Trees and Living Environment
A050	Science and Conservation in the Field J. Weston Walch, Publisher. Harold Hungerford. To help the teacher plan and execute science instruction in the field.

CONSERVATION OF NATURAL RESOURCES

Cat. No.	Description
A067	Soil Conservation United States Department of Agriculture. Outdoor learning at school. August, 1970.
S014	Soil Conservation J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative poster cards.
A053	Teaching Conservation United States Department of Agriculture, Soil Conservation Service. United States Government Office, 1966. An outline for teaching conservation to elementary students. Grades 1-8.
A054	Teaching Soil and Water Conservation United States Department of Agriculture, Soil Conservation Service. United States Government Office, 1964. A classroom and field guide to showing how to conserve soil and water. Shows detailed experiments. Jr. High Level.
A076	The Third Wave United States Department of the Interior Conservation Yearbook. This conservation yearbook series format constitutes both the annual reports and the special reports to the nation which have been published in previous years by the Department of the Interior.
F054	Trees Urban Ecology Series. Ealing Corporation. Each film-loop in this series is a field-trip, an exploration which will encourage your students to begin their own projects. Teacher's guide and suggested lesson plan. Super 8 cartridge color film-loop.
S015	Trees J. Weston Walch, Publisher. Portland Maine. Slides with teacher's guide.
C11	Trees of North America Copyright 1968. National Wildlife Federation. Forty-eight color illustrations of trees in North America with a brief description of each tree.
S017	Water Conservation J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative poster cards.
H082	What's Ahead for Our Public Lands? Copyright 1970. Natural Resources Council of America. A summary review of the activities and final report of the Public Land Law Review Commission. Compiled for the Natural Resources Council of America by Hamilton K. Pyles.

ECOLOGY AND ECOSYSTEMS

Cat. No.	Description
F001	Above the Timberline McGraw-Hill Company. Alpine Plants. Magi-cartridge. Super 8mm color.
F023	An African Essay Guidance Associates, Ann Morrow Lindberg. Brings students into immediate contact with nature and life as an intricately balanced system. 2 filmstrips with records and teacher's guide.
F073	Alpine Tundra Ecology of the United States Series. Ealing Corporation. What does the tundra look like? What kinds of plants survive the Artic winter? With this series of film-loops you can show your students the basic characteristics of the terrain, the marvelously adapted plant and animal life. Super 8 cartridge color film-loop.
F072	American Desert Ecology of the United States Series. Ealing Corporation. Why are there so many snakes in the desert? With this series of film-loops you can show your students the basic characteristics of the terrain, the marvelously adapted plant and animal life. Super 8 cartridge color film-loop.
F071	American Prairie Ecology of the United States Series. Ealing Corporation. What characteristics does an animal need to survive on the prairie? With this series of film-loops you can show your students the basic characteristics of the terrain, the marvelously adapted plant and animal life. Super 8 cartridge color film-loop.
S003A	Biology of the Desert J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.
B006	Botany Copyright 1970. Published by Western Publishing Company. By Vera R. Webster. Gives a clear, overall picture of the complex kingdom with its 350,000 known species. Tells life histories of major plants. Illustrated.
H027	Communities and Ecosystems Published by the Macmillan Company. Robert H. Whittaker. The study of living systems in relations to environment is the science of ecology. Much ecological understanding can be integrated around the concepts of communities as assemblages of different species which interact with one another, and ecosystems as a functional system formed by communities and their environments.

ECOLOGY AND ECOSYSTEMS

Cat. No.	Description
F088	Conservation: Man Helps Young Turtles The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
F080	Coral Reef Community The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
F078	Deep Sea Diving: Exploring the Undersea World The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop
A080	Earth Corps Ecology/Conservation Study Kit Scholastic Book Services. Kit II--EARTH IS OUR HOME. The pupil is introduced to the science of ecology. In clear and simple terms he is shown how all living things are inter-related to their environment. Kit includes: student activity books, transparencies, wall chart, and teaching manual. Kit II for grades 3-4.
A081	Earth Corps Ecology/Conservation Study Kit Scholastic Book Services. Kit III SHARING THE EARTH. Continues in greater depth the study of the interdependence of animals and plants. The student looks at some of the things that man has done to change his environment. Kit includes: student activity books, transparencies, wall chart, and a teaching manual. Kit III for grades 5-6.
F040	The Ecological Crisis Singer SVE. An excellent new filmstrip series takes a serious look at current environmental problems and their causes. Factual statistics are dramatized and full-color photographs illustrate the situations analyzed. This series creates awareness, stimulating discussions. Set of 6 filmstrips, 3 records, 6 guides. Jr.-Sr.High 1. Population Statistics 2. Population Trends 3. Some Ecological Considerations 4. Evolution and Extinction 5. Pesticides 6. Pollution

ECOLOGY AND ECOSYSTEMS

Cat. No.	Descriptions
F091	Ecological Systems Imperial Film Company, Inc. These four filmstrips cover the four most-often studied ecological systems. Pictures were gathered over a period of more than a year, in places ranging thousands of miles from one another. Set of 4 filmstrips, 2 records. Inter-Jr.-Sr. High. 1. Ecology of a Seashore 2. Ecology of a Forest 3. Ecology of a Pond 4. Ecology of a Desert
A009	Ecology Union County Outdoor Educational Center. Follow-up material concerning ecology with suggested classroom activities.
G07C	Ecology Published by Urban Systems. Ecology gives you a chance to start the world all over again. You guide your own population group through the four ages of mankind's development: Hunting, Agricultural, Industrial, and Environmental. You'll expand your population, develop new inventions, acquire new lands and wrestle with the crisis that threaten to engulf your civilization. Ecology challenges each player to bring his population, his technology, and his natural environment into a workable balance.
A087	Ecology Activity Book--We Need Each Other Scholastic Book Service. In large, easy-to-read type and short, simple sentences. This book introduces the child to the basic concept of ecology--the interdependence of all forms of life and the balance of nature. Teacher instructions in small type at the bottom of the page. Instructions also serve as a guide to parents who may wish to help the child at home. For grades 1-2.
D004	Ecology--Life, Struggle, Survival Copyright 1970. Addison-Wesley Publishing Company. L. McCombs, N. Rosa. An introductory study of the science of ecology. Suitable for studies on population, pollution, conservation changing urban life, Eco-political action with revelance for today's concerned students. Grades 7-8.
F009	Ecology and Man Series I. McGraw-Hill. Filmstrips with teacher's guide. 1. Introduction to Ecology 2. Changes in Ecosystems 3. Adaptations to Environment 4. Energy Relationship 5. Habitats and Niches 6. Populations and Biomass
F010	Ecology and Man Series II. McGraw-Hill. Filmstrips with teacher's guide. 1. The Forest Biome - Part I 2. The Forest Biome - Part II 3. The Grassland Biome 4. The Desert Biome 5. Fresh Water Ecology 6. Seacoast Ecology

ECOLOGY AND ECOSYSTEMS

Cat. No.	Description
F011	Ecology and Man Series III. McGraw-Hill. Filmstrips with teacher's guide. 1. The Management of Soil 2. The Management of Water 3. Competitive Land Use 4. Human Ecology 5. The Ecology of Farming 6. Man-Managed Ecosystems
D024	Ecology of Populations Copyright 1968. Published by Macmillan Company. Arthur Boughey. Leads from environmental requirements through population dynamics to community organization and evolution. It concludes with a chapter on human ecology. Designed for students who are being exposed to the topics of life science and biology for the first time.
C03	Ecology Poster Cards Milton Bradley Company. Giant, 11¼" x 14". Ecology Poster Cards are designed to stimulate the student's thinking. For large or small group presentations. For teaching children how to observe, select and conserve the components of our environment. With teacher's guide. For elementary grades.
H089	Ecology and Resource Management Copyright 1968. McGraw-Hill Company. Kenneth E. Watt. The field of resource management has tended to fragment, and there is inadequate exchange of principles, theories, methods, and ideas about data processing and interpretation techniques among the various professional groups of resource managers. This book is intended to remedy this situation by providing a text for courses that cut across disciplinary lines and consider all resources on a comparative approach.
F012	Ecology Series McGraw-Hill. Filmstrips with teacher's guide. 1. Physical Environment 2. The Forest as a Community 3. The Field as a Community 4. Pond as a Community 5. The City as a Community 6. Ecological Succession
F030	The Environment of Man Educational Coordinates. An introduction to ecology. Teacher's guide. 4 filmstrips and recrods.
D005	Environments of Man Copyright 1968. Published by Addison-Wesley Publishing Company. By Jack B. Bresler.
B021	Estuaries--America's Most Vulnerable Frontiers Copyright 1959. Published by the National Wildlife Federation. By Will Johns. Gives the reader basic knowledge of estuaries.

ECOLOGY AND ECOSYSTEMS

Cat. No.	Description
F074	Everglades Ecology of the United States Series. Ealing Corporation. Your students will begin to sense the fragile balance which exists between the environment and its inhabitants when, for instance, the underwater camera follows the chain of life and death beneath the surface of water. It will become apparent that it is this balance which is so easily destroyed by earth's most dangerous predator--man. Super 8 cartridge color film-loop.
F089	Fishes The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
F014	Forest Community Series McGraw-Hill. Filmstrips with identification within the filmstrip. Teacher's guide. 1. Building the Soil 2. Forest Plant and Animal Relationships 3. Enemies of the Forest 4. How Trees Grow 5. Where Trees Grow 6. Forests for the Future
F090	Giants of the Deep: Whale Behavior The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
D017	Great Chain of Life Copyright 1956. Pyramid Publication, Inc. Joseph Wood Krutch. How did it begin? What has gone before? Where will it lead? These are questions which have fascinated man for thousands of years. Joseph Krutch looks at evolution with a fresh eye. He reveals many surprises and wonders in the natural world around us. The Great Chain of Life is an important, delightful addition to man's understanding of ecology--the interrelation of living things--and the biological world in which we live.
C07	Instructor Ecology Series Instructor Publications, Inc. By Clifford E. Knapp. Poster was designed for use by teachers and pupils of elementary grades.
G20	Interdependence Earthstation 7. A game of ecological relationships.

ECOLOGY AND ECOSYSTEMS

Cat. No.	Description
F015	Interdependence of Living Things McGraw-Hill. Filmstrips with teacher's guide. 1. Introduction to Ecology 2. Animal and Plant Communities: Forest 3. Animal and Plant Communities: Field 4. The Web of Life 5. Animal and Plant Communities: Pond 6. Animal and Plant Life Communities: City
F083	Investigating Predatory Behavior The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
F081	Investigating Protective Behavior The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
F084	Investigating Shark Behavior The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
F082	Investigating Territorial Behavior The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and ocver untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
F050	Let's Explore the Desert Exploring the World of Nature Series. Group 2. Singer SVE. An ecological approach to nature study. Plant/animal survival. Man's effects on desert life. 51 frames. Inter-Jr. High.
F049	Let's Explore the Dunes Exploring the World of Nature Series. Group 2. Singer SVE. An ecological approach to nature study. Dune formation and movement. Plant effects on dunes and animal survival in sand. 51 frames. Inter-Jr. High.

ECOLOGY AND ECOSYSTEMS

Cat. No.	Description
F041	Let's Explore a Field Exploring the World of Nature Series. Group 1. Singer SVE. An ecological approach to nature study. Animal and plant life in natural settings. Winter shelter, food. Inter-Jr. High.
F042	Let's Explore a Garden Exploring the World of Nature Series. Group 1. Singer SVE. An ecological approach to nature study. Life in a garden. 48 frames. Inter-Jr. High.
F043	Let's Explore a Lawn Exploring the World of Nature Series. Group 1. Singer SVE. Common weeds, desirable grasses, effect of too much fertilizer. Animal life in lawn and what it does. 51 frames. Inter-Jr. High.
F044	Let's Explore a Pond Exploring the World of Nature Series. Group 1. Singer SVE. An ecological approach to nature study. Plant and animal life in a pond. 50 frames. Inter-Jr. High
F052	Let's Explore a Salt Marsh Exploring the World of Nature Series. Group 2. Singer SVE. Plant and animal adaptations to salt marsh. How salt marshes differ from other grasslands. 49 frames. Inter-Jr. High
F051	Let's Explore the Shore Exploring the World of Nature Series. Group 2. Singer SVE. An ecological approach to nature study. Seashore life. Tidal zones for plants/animals; tidepool life. 51 frames. Inter-Jr. High.
F045	Let's Explore a Stream Exploring the World of Nature Series. Group 1. Singer SVE. An ecological approach to nature study. Plants and animals of various habitats. Pollution damage. 50 frames. Inter-Jr. High.
F046	Let's Explore a Woodland Exploring the World of Nature Series. Group 1. Singer SVE. An ecological approach to nature study. 47 frames. Inter-Jr. High.
H046	The Life of the Desert Copyright 1966. Published in cooperation with the World Book Encyclopedia. By Ann and Myron Sutton. This volume explains the vital interrelationships that exist between living things and the physical envionment of vast desert regions. Over 1,000 color illustrations.

ECOLOGY AND ECOSYSTEMS

Cat. No.	Description
G06E	Life From Death Copyright 1970. Published by Urban Systems. Environmental Game. About the contribution of wastes to the survival of life on earth in terms of recycling of nutrients throughout the food web. Experiments involve testing the gases animals and plants give off, and testing soil components for acidity and retention of water and dissolved nutrients. The problems of pollution from human wastes are discussed and some solutions for waste disposal are offered.
G06B	Life in the Water Copyright 1970. Published by Urban Systems. Environmental Game. About the essential food sources for aquatic life: tiny plant and animal plankton, their nutrition and survival. Designed to investigate nearby bodies of water: ponds, lakes, streams, ocean. Equipment includes a plankton net to gather living samples. If a microscope is available, the tiny plant and animal discovered in the water can be compared to pictures in the booklet.
S007	Lower Plants Group 1. J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.
S008	Lower Plants Group 2. J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.
G09	Man in his Environment--Ecology Kit By the Coca-Cola Company. First, to help children become more aware of their environment; second, to help children appreciate their interdependence with their environment and; third,to help children realize that as human beings, they can make decisions which effect their environment for better or worse.
H069	Man, Medicine, and Environment Copyright 1968. Frederick A. Praeger, Publisher. By Rene Dubos. In clear, non-technical language, Dr. Dubos analyzes the complex interrelationships that govern man's life today and the effect of environmental factors on the health of both primitive and modern man.
F075	Mangrove Swamp Ecology of the United States Series. Ealing Corporation. Your students will begin to sense the fragile balance which exists between the environment and its inhabitants when, for instance, the underwater camera follows the chain of life and death beneath the surface of water. It will become apparent that it is this balance which is so easily destroyed by earth's most dangerous predator--man. Super 8 cartridge color film-loop.

ECOLOGY AND ECOSYSTEMS

Cat. No.	Description
F038	Modern Biology: Environment and Survival Group 1. Singer SVE. An excellent opportunity for students to study how living things relate to their environment. This series stresses the "new" ecological biology approach through brilliant full-color photos of plants and animals in their natural habitats. Jr-Sr High. Set of 4 filmstrips, 2 records, 4 guides. 1. Life in Relation to Environment 2. Life in the Forests 3. Life in Two Subtropical Communities 4. Life on Grasslands & Prairies
F039	Modern Biology: Environment and Survival Group 2. Singer SVE. Explains animal-environmental interdependence plant/animal communities, importance of biotic and abiotic conditions such as topography, rainfall, and intra-species competition. Jr.-Sr. High. Set of 4 filmstrips, 2 records, and 4 guides. 1. Life in a Sand Dune Succession 2. Life in a Bog 3. Life in an Alpine Environment 4. Life in a Fallen Log: Microcommunity
D033	A New Look at Elementary School Science Copyright 1967. Rand McNally and Company. By Robert Karplus and Herbert D. Thier.
A086	Oceanography: Environmental Approach to Marine Science Oceanography Unlimited, Inc., 1970. Curriculum guide for studying ocean environment. High school grade level.
A030	Ornithology and Botany Union County Outdoor Educational Center. Follow-up material concerning birds and plant life.
F031	Our Environment Group 1. Fresh water communities: streams, rivers, ponds, and lakes. Copyright 1970. By J. Donald Meyer. Teacher's guide with 4 records and 2 charts which illustrate the water and nitrogen cycles.
F016	Our Land and Its Story Singer SVE Educational Filmstrip. Illustrate and extend the elementary social studies curriculum with their colorful presentations of important aspects of our country's background and culture. These filmstrips deal with the growth of American civilization amid the influences of geography and the elements of nature, highlighting the interdependence of man and nature. Interest level 1-4. Reading level 3.
A036	People and Their Environment Biology. Copyright 1968, 1969. J. G. Ferguson Publishing Company. By Cyril Busbee.

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Cat. No.	Description
A039	People and Their Environment Science. Copyright 1968, 1969. J. G. Ferguson Publishing Company. By Byril Busbee. Grades 7-9.
S012	Plant Life in a Bog J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.
F077	Pond Ecology of the United States Series. Ealing Corporation. Your students will begin to sense the fragile balance which exists between the environment and its inhabitants when, for instance, the underwater camera follows the chain of life and death beneath the surface of the water. It will become apparent that it is this balance which is so easily destroyed by earth's most dangerous predator--man. Super 8 cartridge color film-loop.
G06C	Predator Prey Published by Urban Systems. Environmental Game. About survival, food chains, food webs, and ecological balance. In the form of a simulation game, in which small circles represent prey such as a rabbit or squirrel, and large circles represent predators, such as a lynx or wolf. Each person tries to be the best predator possible. He can then trace the changes in the predator prey populations under different circumstances, illustrating competition and natural selection. Copyright 1970.
F017	Production of Oxygen by Green Plants McGraw-Hill. Magi-cartridge. Super 8mm.
F086	Reproductive Behavior of the Turtle The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude toward the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
F076	River Ecology of the United States Series. Ealing Corporation. Your students will begin to sense the fragile balance which exists between the environment and its inhabitants when, for instance, the underwater camera follows the chain of life and death beneath the surface of water. It will become apparent that it is this balance which is so easily destroyed by earth's most dangerous predator--man. Super 8 cartridge color film-loop.

ECOLOGY AND ECOSYSTEMS

Cat. No.	Description
F034	Role of Flowers and Fruits Singer SVE. An in-depth look at common fruits and flowers demonstrates fundamentals of botany. Supplementary diagrams and artwork facilitate student comprehension. Special frames introduce vocabulary terms. 2 filmstrips, 1 record. 1. Flowers: Their Parts and Functions 2. Fruits: Their Growth and Classification
F067	Sand Backyard Ecology Series. Ealing Corporation. At the beach, is the sand as lifeless as it appears? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
D023	Sense of Wonder Copyright 1965. Harper and Row, Publishers. Rachel Carson. The author affirms her belief that those who live with the mysteries of earth, sea, and sky are never alone or weary of life. She would endow every child with a "sense of wonder so indestructible that it would last throughout life."
F085	Shark Feeding Frenzy The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
F087	The Struggle for Survival: Hatching Turtles The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
H060	The Subversive Science Copyright 1967. By P. Shepherd and D. McKinley. A collection of essays towards an ecology of man. Each of the 36 essays presented has something important to say about man's relationship to nature, not just as it has been but as it is now and will be.
A052	A Syllabus for an Introduction to Ecology for Elementary Teachers Published by Southeastern Pennsylvania Outdoor Education Center. A course of study for undergraduate students in outdoor education.

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Cat. No.	Description
D051	Understanding Ecology By E. F. Bellington
F037	Understanding Oceanography Singer SVE. Students get a close look at methods used in studying the ocean and its basins. They learn the need for the utilizing the ocean's food and minerals. 6 filmstrips, 3 records, 6 guides. 1. Study of Oceans 2. Ocean Basins 3. Characteristics of Sea Water 4. Currents, Waves, & Tides 5. Life on the Open Seas 6. Life on the Sea Floor & Shore
A059	Vacant Lot Studies Environmental Science Center, Minnesota. This lesson united the disciplines of social studies, ecology, and mathematics around the study of a vacant lot. Grades 5-9.
F018	Water Plants McGraw-Hill. Magi-Cartridge. Super 8mm.
G06D	What Moves Life Published by Urban Systems. Environmental Game. About the relationships of living things to physical factors in their environment. Experiments include testing the effect of light on plants and animals, the effect of gravity on roots and stems, the effect of temperature on the growth of plants and animals, the effect of moisture on the growth of plants, the effect of physical objects on the growth of plants.
G06A	Why Are Leaves Green? Published by Urban Systems. Environmental Game. About plants and their green color in relation to light, phtosynthesis, plant survival, and related ecological issues. Experiments include the effect of light on green plants, and non-green plants, the separation of chlorophyll and other pigments by paper chromatography. Copyright 1970.
F079	Wonders of the Coral Jungle The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
F068	Tidepool Backyard Ecology Series. Ealing Corporation. What is left in the rocky pools when the tide goes out? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.

ENVIRONMENTAL ACTION

Cat. No.	Description
H019	Before Nature Dies Jean Dorst. One of the world's most distinguished zoologists treats the entire earth as a single unit, marking clear what must be done on an international scale if man's suicidal drive to destruction is to be halted.
D048	Cleaning Our Environment--A Chemical Basis for Action Copyright 1969. American Chemical Society. An account of the current status of environment improvement and recommendations to accelerate the development of science and technology for environmental improvement.
A007	Community Action for Evnrionmental Quality The Citizen's Advisory Committee on Environmental Quality. United States Government Office. A guide for citizens who want to participate in practical action to make their community a better place to live in.
B067	Conservation--Everyone's Job Copyright 1970. J. Weston Walch, Publisher. Christobel Cordell. A guide book for teaching conservation of human resources, air, water, soil, forests, minerals, fisheries, and wildlife. K-12.
B017	Discovering Your Environment Myron Chase. Purpose: to create involvement, understanding, and willingness to work and pay for environmental improvements.
J07	Ecology News Briefs Environmental Awareness Associates, Inc. A newsletter of environmental action and planning. Published monthly.
D031	Environment and Change the Next Fifty Years Copyright 1968 by Indiana University Press. Commissioned and edited by William R. Ewald, Jr. Offers realistic goals toward which urban planning may be directed if human society is to fulfill its need and capability for advancement.
J03	Environment Improvement Case History Report Service Freed Publishing Company. A report of environmental and ecological action programs undertaken around the nation! Monthly report.
D032	Environment and Policy the Next Fifty Years Copyright 1968 by Indiana University Press. Commissioned and edited by William R. Ewald, Jr. Steps to be taken to achieve man's optimum environment delineate the essential plans to be made in order to implement programs conceived, to personally involve the greatest number of people and to specify the leadership required.

ENVIRONMENTAL ACTION

Cat. No.	Description
B020	The Environment and What To Do About It United States Atomic Energy Commission
J01	Environmental Action Bulletin Rodale Press, Inc. Weekly coverage of health, environmental and human ecology news.
D030	The Environmental Handbook Copyright 1970. Garrett De Bell. Is our environment to be dealt with in these terms, or is it to be handed over to careless, unthinking development by those who think only of what it could yield to them today? Suggestions found in this handbook can become the source for our efforts. There's a planet that needs our help...
D036	Environmental Health Planning Copyright 1971. Published by the United States Department of Health, Education, and Welfare Public Health Service. This book briefly describes environmental health problems and the need for planning, a description is offered of urban and regional planning, comprehensive health planning, and principles of program planning.
J05	Environmental Quality An important new magazine "dedicated to end pollution." Its weapon in the fight to save Earth: A thoughtful, compelling editorial product. Published quarterly.
J04	Land Pollution Reporter Freed Publishing Company. Publication serving public and private orgainzations with information on environment improvement by decreasing land pollution. Bimonthly report.
B041	Our National Environmental Quality Copyright 1969. Thomas L. Kimball. Reprinted from National Wildlife. An index of environmental quality. It measures what we have done and are doing to make our environment better.
D049	Pollution Abstracts Volume 2, Number 1, February 1971. William C. Farmer. Provides the more detailed technical material which is needed by researchers in universities, corporations, and government agencies. It will fit the needs of readers interested in the current state of environmental actions. The interested citizen, student, and industrial or governmental planner. With indexes.
D050	Pollution Abstracts Volume 2, Number 2, April 1971. William C. Farmer. Provides the more detailed technical material which is needed by researchers in universities, corporations, and government agencies. It will fit the needs of readers interested in the current state of environmental actions, the interested citizen, student, and industrial or governmental planner. With indexes.

ENVIRONMENTAL ACTION

Cat. No.	Description
R16B	Preserving and Improving the Urban Environment Carl Feiss. One-half hour program. Distributed by Indiana University.
S023	Recreation or Wreck-Creation Good Outdoor Manners Association (GOMA). A 25-minute program of 35 mm color slides with taped commentary presents the problems of abuse and damage to outdoor recreation areas and the costs to the taxpayer. Photographs of scenic beauty, animals, and geological formations. There are suggestions as to how damage can be avoided and what actions can be taken by individuals, organizations, or communities to protect recreation areas.
R17	Truth in Packaging--Consumer Dilemma Week 1 Darin Sheldon, Ralph Nader's Public Interest Research Group. One-half hour program. Distributed by Indiana University. Tape Recording.
B061	What Can You Do With Refuse? Caterpillar. Tells what we can do with refuse. Your can burn it, dump it, compost it, or you can make it a community asset.
B059	What You Can Do About Water Pollution Federal Water Pollution Control Administration 1. Everybody can do something about water pollution 2. Everybody can help to clean up dirty water 3. Everybody can help to keep clean water clean
B060	What You Can Do To Improve Your Environment! Conservation & Environmental Science Center. Pamphlet listing ideas and addresses to write to in order to improve your environment. For all ages.
B063	You and Your Lawmaker Published by the Shooting Sports, Inc. A citizenship manual for sportsmen. Sportsmen must take a more active interest in legislation affecting the broad field of outdoor recreation.
H100	Your Environment and What You Can Do About It Copyright 1970. Walker & Co. Richard Saltonstall, Jr. This book tells you what you can do about air and water pollution, noise, chemical pollution, etc. It tells you what organizations you can apply to for more information, which government agencies to approach and what your legal rights are. This book provides a prescription for effective citizen action.
B017	Discovering Your Environment By Myron Chase. Purpose: To create involvement, understanding, and willingness to work and pay for environmental improvements.

ENVIRONMENTAL EDUCATION FILMS

Cat. No. Description

E01 Africa's Vanishing Wildlife (E-J-H-C-A)
Illustrates how many kinds of animals are able to live together in Africa's wildlife community, but how man's increasing pressure on the land threatens Africa's remaining wildlife regions.
16mm/15 mins./color Arthur Barr Productions, Incorporated

E02 The Aging of Lakes (J-H-S-C-A)
After introducing geological and ecological factors of normal "aging" of lakes, the film zeroes in on how man is speeding up this natural process--showing examples of indiscriminate disposal of fertilizers, sewage, and industrial waste.
16mm/14 mins./color Encyclopaedia Britannica Educational Corp.

E03 Air Pollution/Take a Deep, Deadly Breath Parts I, II & III (J-H)
An important examination of the critical nature of the air pollution problem, a survey of the measures that have been taken to solve the problem and why they have failed. An ABC-TV Project
16mm/54 mins./color McGraw-Hill Films

E04 America and the Americans Parts I & II (J-H)
Based on John Steinbeck's book and narrated by Henry Fonda, This comprehensive critique covers such contemporary areas as conservation, air pollution and the destructive use of natural assets.
16mm/51 mins./color McGraw-Hill Films

E05 Ark (J-H-C-A)
Ark tells the story of one man's valiant attempt to keep alive a community of wild creatures native to a small pond, by enclosing the pond in a glass house which protects it from the polluted world outside. But other men cannot let him be, to labor peacefully; they violate and destroy his "Walden-under-Glass."
16mm/20 mins./color Arthur Barr Productions, Incorporated

E06 At Home, 2001 (H-C-A)
Take a look at the brave new world in which man never needs to leave home. The family of the future lives by controlled light and temperature, works and markets from home, watches wall-size 3-D TV and has solved the maid problem with robots.
16mm/25 mins./color McGraw-Hill Films

E07 Autos and All That Traffic (H-C-A)
Presents all aspects of situation, including: the problems traffic creates, air pollution, new cars to be developed, methods in accident prevention, and new highway planning.
16mm/25 mins./color McGraw-Hill Films

E08 Of Broccoli & Pelicans & Celery & Seals: (E-J-H-C-A)
Our Vanishing Wilderness Series. Concerned with the Channel Islands off the coastal city of Santa Barbara, the film illustrates the effect that pesticides used on the Mainland have on the

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Cat. No. Description

Of Broccoli & Pelicans & Celery & Seals (cont.)
reproduction of the pelicans on these islands. This film also points to the importance of aquatic life that might be utilized as food for human consumption.
16mm/30 mins./color National Educational Television Film Service

E09 The Chain of Life: Our Vanishing Wilderness Series (E-J-H-C-A)
This program illustrates what a food chain is, how it supports diverse forms of life and how interfering with it can bring havoc in unexpected ways. This last of eight programs examines new trends toward more intelligent use of the earth's natural resources.
16mm/30 mins./color National Educational Television Film Service

E10 Cities of the Future (J-H-C-A)
An animated segment shows how years of growing urbanization have brought worsening conditions of pollution, slums, congestion. Focusing on creative planning now in progress, a dozen cities around the world are visited. We study, for example, Brazil's "clean-slate" approach and Philadelphia's "constructive-restoration." Exciting architectural ideas shown: "weather-proofed" cities, megastructures surrounded by greenbelts, multi-level cities and floating cities.
16mm/25 mins/color McGraw-Hill Films

E11 Conservation/A Job for Young America (E-J-H-C-A)
Litter and what young people can do about it is the subject of "...one of the cleverest short films for conservation."
16mm/19 mins./color McGraw-Hill Films

E12 Conservation for the First Time (E)
Several children are given movie cameras and asked to "help shoot a movie of the city." They experience awareness of their urban surroundings for the first time. They discover the wonders and beauty of nature and the conveniences of the city. They express concern for preservation of natural resources and improvement of the neighborhood's appearance.
16mm/9 mins./color McGraw-Hill Films

E13 Cosmopolis/Big City 2000 A.D. Parts I & II (J-H-C-A)
What will the big city be like in the year 2000? This provocative film visits with such authorities as architects Philip Johnson, I. M. Pei, and Senator Paul Douglas. Floating cities, prefabricated units, megastructures, and green belts surrounding new British towns are only a few solutions to urban problems which are discussed.
16mm/52 mins./color McGraw-Hill Films

E14 Environment (I-J-H)
The degrading of our environment is a major problem. However, the causes of this deterioration are complex and are closely bound to

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Environment (cont.)
the strengths of a modern industrial society: affluence, advanced technology and individualization. This film probes beyond the superficial rhetoric of ecology and shows that while such practices as high-technology farming can be destructive to the land, the products of this farming are vitally needed. What balances must be struck? Can we preserve our environment and still hold on to our technology and life style? After posing these questions, this unusual and highly dramatic film is left open-ended. Bernard Wilets Film. Ecological problems/the affective approach.
16mm/28½ mins./color BFA Educational Media

E15 The Garbage Explosion (J-H-C-A)
Investigates the nature, volume, and composition of solid wastes, which include a growing proposition of less destructible paper, metals, plastic, and glass. It presents advantages and disadvantages of current disposal methods, and shows possible long range solutions.
16mm/16 mins./color Encyclopaedia Britannica Education Corp.

E16 House of Man: Our Changing Environment Part I (I-J-H-C-A)
Reveals the waster of resources in cities, woodlands, and farmlands, and the pollution of river waters and of the air.
16mm/11 mins./color Encyclopaedia Britannica Educational Corp.

E17 House of Man: Our Crowded Environment Part II (I-J-H-C-A)
Shows problems that have resulted from the population explosion; housing, and food shortages, poverty, industrial waste, and exploitation of natural resources.
16mm/11 mins./color Encyclopaedia Britannica Educational Corp.

E18 Life in a Vacant Lot (P-I)
Presents the interrelationships of organisms living in an urban vacant lot. A changing community which can be found almost any place, a vacant lot has a short life because it is replaced by construction or plantings, and is eventually "disturbed by man. This film encourages students to investigate the kinds of life to be found in the vacant lots in their own communities.
16mm/10 mins./color Encyclopaedia Britannica Educational Corp.

E19 Life in Parched Lands (E-J-H-C-A)
The arid, awesome and amazingly beautiful Sonoran Desert is examined through Telescopic lenses to reveal a sand jungle in which survival of the fittest depends more on resourcefulness than on strength.
16mm/30 mins./color McGraw-Hill Films

E20 Megalopolis--Cradle of the Future (I-J-H)
Examines the life and problems of Megalopolis, the urbanized northeastern seaboard extending from Boston to Washington, D.C. Shows

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Cat. No. — Description

Megalopolis--Cradle of the Future (cont.)
metropolitan centers, transportation networks, harbors, suburban and rural areas--and points out the need for better organization of the suburban sprawl in the future course of the urbanization.
16mm/22 mins./color Encyclopaedia Britannica Educational Corp.

E21 The Mountains (E-J-H-C-A)
Mountains are one of the most interesting land forms of the Western United States. Their appearance reveals the forces that created them. Fir trees are also common on the forested slopes. The forest provides a favorable habitat for many animals. There are many other natural areas to explore.
16mm/14 mins./color Arthur Barr Productions, Incorporated

E22 Our Endangered Wildlife Parts I & II (E-J-H-C-A)
78 species of wildlife are threatened with extinction, and this film deals with five of them in depth--the Key deer, whooping cranes, Kirtland's warbler, timber wolves, and the bald eagle. "Vitally important to convince society that it must prevent the destruction of wildlife."
16mm/51 mins./color McGraw-Hill Films

E23 Our Land Needs Your Help (E-J-H-C-A)
Develops an awareness of our environmental problems and suggests ways in which the elementary student can become actively involved in solving pollution and waste of valuable resources. Emphasizes the importance of setting an example to encourage a new way of thinking for everyone.
16mm/13 mins./color Arthur Barr Productions, Incorporated

E24 Our Vanishing Lands (E-J-H-C-A)
This film contributes to the conservation of America's resources--its land, its wildlife, and its natural beauty.
16mm/24 mins./color McGraw-Hill Films

E25 Population Ecology (H-C-A)
Analyzes the effects of environment as they relate to surplus or decline of births over deaths. Conditions are set up in the laboratory in which the surplus of births develops in a predictable pattern when natural enemies, food factors, and other environmental factors favor such a surplus.
16mm/19 mins./color Encyclopaedia Britannica Educational Corp.

E26 Population Explosion (H-C-A)
Shows how advances in medical technology are reducing mortality, thereby giving rise to a great shortage of food for the people of the world. Efforts to increase food production output in underdeveloped nations are explained.
16mm/15 mins./color McGraw-Hill Films

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Cat. No.	Description
E27	The Prairie Killers: Our Vanishing Wilderness Series (E-J-H-C-A) Filmed on the great plains, this film shows how life has changed since ranchers and farmers have driven off Indian tribes, and how the systematized killing of wildlife, especially of prairie dogs, has upset the ecology of the region and threatened several species with extinction. 16mm/30 mins./color National Educational Television Film Service
E28	The Problem with Water is People (H-C-A) This film traces the course of the Colorado River and the spread of pollution in a magnificent American waterway. A look at the future considers the implications of polluted water in view of the population explosion and the increasing demands of irrigation and industry. 16mm/30 mins./color McGraw-Hill Films
E29	Problems of Conservation: Air (J-H-C-A) Natural pollutants existed long before man, but harmful pollution did not start until the approach of the Industrial Revolution. This film explains what has caused man-made pollution; its effects on health and property, and what is being done to help solve the problem. 16mm/15 mins./color Encyclopaedia Britannica Educational Corp.
E30	Problems of Conservation: Water (J-H-C-A) Focusing on some of Southern California's problems, the film shows innovative ways to increase water supplies--percolation ponds, desalination of salt water, artificial weather control. This film also points out that pollution control is equally important in conserving and purifying present water supplies. 16mm/16 mins./color Encyclopaedia Britannica Educational Corp.
E31	Prudhoe Bay--or Bust!!: Our Vanishing Wilderness Series (E-J-H-C-A) This program examines the kinds of life that exist on the Alaskan tundra and how the proposed 800-mile oil pipeline and other likely projects would probably ruin the ecology of the land. Conservationists are fiercely opposed to the project and have succeeded in delaying it. This show presents views of people who are for and against the project. 16mm/30 mins./color National Educational Television Film Service
E32	Santa Barbara--Everybody's Mistake: (E-J-H-C-A) Our Vanishing Wilderness Series. This episode examines the controversial off shore oil leak near Santa Barbara and shows how the blame is shared by government, scientific and civic parties as well as oil companies. 16mm/30 mins./color National Educational Television Film Service

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Cat. No. Description

E33 The Seashore (I-J-H-C-A)
Explores the variety of shorelines and beauty of the Pacific Seashore, showing some of the typical plants and animals that live on the sandy beaches and in the tidepools and how they adapt to their habitat.
16mm/10 mins./color Arthur Barr Productions, Incorporated

E34 The Sense of Wonder Parts I & II (H-C-A)
This two-part film...The Sense of Wonder and The Edge of the Sea... demonstrate how all of us can hold onto and renew our inner strength by searching out the ways in which we share the common bond of life with all things. Whether we live in the country or the city, all we need do is open our eyes to the easily observable aspects of nature. A "natural" film in the most literal sense.
16mm/51 mins./color McGraw-Hill Films

E35 Silent Spring of Rachel Carson Parts I & II (E-J-H-C-A)
"A stimulating--and disturbing--study of the promise and perils of widespread pesticide use. An extraordinarily fine job."
16mm/54 mins./B&W McGraw-Hill Films

E36 Slow Death of the Desert Water: (E-J-H-C-A)
Our Vanishing Wilderness Series. This program illustrates the many ways in which man is responsible for the threat to existence of the cutthroat trout, the white pelican and the cui-cui fish in Pyramid Lake in Nevada. It also takes a look at the conflicts between three factions in the area: officials and proponents of the Truckee Carson Irrigation District; the Paiute Indians who claim ownership of the lake and want to develop its shores for recreation; and the managers of federal refuges.
16mm/30 mins./color National Educational Television Film Service

E37 Standing Room Only (H-C-A)
Examining the proposition that the world can support an ever-rising population, the film depicts ideas for distributing food surpluses, exploiting the oceans, increasing agricultural activity, and advancing present methods of birth control.
16mm/25 mins./color McGraw-Hill Films

E38 A Strand Breaks (J-H-C-A)
Illustrates the importance of maintaining the natural balance of plant and animal life in an ecological community by showing what happens when that balance is destroyed. Shows how overgrazing affects the grasslands community and how hunting can affect the balance of the forest community. Explains how man can preserve the balance in nature by intelligent management of natural resources.
16mm/17 mins./color Encyclopaedia Britannica Educational Corp.

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Cat. No.	Description
E39	Surviving In Space (E-J-H-C-A) Can man endure the various conditions of the hostile environment of space? Bioastronautics--a new branch in medical science--does just this. This film takes us to the School of Aerospace Medicine at Brooks Air Force Base in Texas, where we watch astronauts as they are subjected to simulated conditions of space such as increased G forces, disorientation, extremes of temperatures, and semi-weightlessness. 16mm/26 mins./color McGraw-Hill Films
E40	They Care for the Nation: Mission Possible Parts I & II (I-J-H-C-A) Film deals with those general pollution problems which face the nation as a whole and what we can and must do to correct them. Several examples of possible solutions are given, many interviews are held with many prominent personalities on both sides of the issue. 16mm/52 mins./color McGraw-Hill Films
E41	The Time of Man (I-J-H-C) The Time of Man is a thoughtful, stimulating and brilliant exposition of the basic meaning of the word "environment." Starting with evolution of the earth from a cloud of gas to a sea-covered planet able to sustain the first tiny bits of life, the interrelationship of creatures and environment is shown in a new perspective. Animals are seen to have survived, or perished, according to their ability to adapt to the environment. The film shows the development of primitive man and focuses on several primitive groups whose life styles so clearly reflect their attitudes toward the environment. 16mm/50 mins./color Ealing Corporation
E42	Tomorrow's World/Feeding the Billions Parts I & II (J-H-C-A) Shows that rapidly-expanding populations in underdeveloped areas are the main reasons for the shortage of food. The film considers new ways of harnessing the earth's resources--such as farming the oceans. Several new projects to develop new foods at low cost are presented. The viewer is made aware of the gravity of the present situation and the danger of widespread food shortages in the near future, if appropriate measures are not taken immediately. 16mm/54 mins./color McGraw-Hill Films
E43	Urban Sprawl (J-H-C-A) Describes the characteristic pattern of recent urban growth and discusses the problems created by urban sprawl, the necessity for planning future development, and the factors that must be considered to make the best use of our land space. 16mm/15 mins./color Arthur Barr Productions, Incorporated

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Cat. No.	Description
E44	The Water Is So Clear That a Blind Man Could See: (E-J-H-C-A) Our Vanishing Wilderness Series. The subject of this program is the struggle of New Mexico's Taos Indians to save their sacred forest grounds from commercial logging interests. The Blue Lake Region is vital to the Taos Indians for both spiritual and practical reasons. The tribe's very survival is dependent upon the preservation of this area because its only water supply originates from Blue Lake which would be destroyed by logging. 16mm/30 mins./color National Educational Television Film Service
E45	What Are We Doing to Our World? Parts I & II (E-J-H-C-A) More than 100 years ago, Ralph Waldo Emerson said, "The end of the human race will be that it will eventually die of civilization." This two part examination of the way technology is altering our environment pleads desperately for conservation. 16mm/52 mins./color McGraw-Hill Films
E46	What in the World Is Water? (E-J-H-C-A) This film explains what water is--not by its chemical composition, but by its function as a carrier of other substances. Students will see how important water is to man, and learn about such concepts as condensation, erosion, irrigation, and water power. Film ends with an illustration of the energy potential of atmospheric water and stored water in a reservoir. 16mm/12 mins./color McGraw-Hill Films
E47	Will the Gator Glades Survive? (E-J-H-C-A) Our Vanishing Wilderness Series. This program contends that the Everglades are being destroyed and illustrates how man is responsible. Control of water for man's purpose is proving disastrous to the delicate water system on which the glades depend for survival. 16mm/30 mins./color National Educational Television Film Service
E48	The World Around Us (H-C-A) This film provides an excellent introduction to the science of Ecology and its vital importance in today's world. It demonstrates what an eco-system is, shows how life is interdependent, describes how man is the only animal that tampers with his environment and discusses pollution and conservation. 16mm/25 mins./color McGraw-Hill Films
E49	My City (P-I) An exploration of the city environment in terms of the lives of the three children in it. Emphasis is on the nature, diversity and quality of lives in a city. What is life like in the city environment? What it means and feels like to live in the city. This film is for use only with the kit The City, number G21, in section on Urban Environment of this catalog. 16mm/20 mins./color Calliope Films, Inc.

ENVIRONMENTAL LABORATORY

Cat. No.	Description
A006	Conservation and Environmental Studies Center Teacher's workshop handbook. For resident environmental education programs.
A014	Good Teaching Aids Audubon Aids 1. How to lead a field trip 2. Natural resources in the city 3. Mysteries of bird migration 4. Rock stories and how to read them 5. The terrarium, a miniature garden under glass 6. Some adventures with wild plants outdoors and indoors 7. Plant propagation in the classroom 8. Things to do in nature 9. How to build a nature trail 10. Trees are history books 11. Forecasting the weather 12. Schoolyard laboratories 13. Nature quiz electric nature games
A019	Guide to Nature's Laboratory School District of University City, Missouri. Gives an overview of the general area for the one-time field trip as well as gives breakdowns of particular areas for more specialized study trips.
A024	Man and His Environment Copyright 1970. National Education Association. An introduction to using environmental study areas.
A028	Micro-Climate Measuring Techniques Contains measuring devices to show that there are variable conditions which combine to make our weather. The instruments are small enough and sensitive enough so they can be used to show small differences in the environment in a limited area, such as your school yard. Environmental Science Center. Grades 3-9
A033	Outdoor Activities Collection Environmental Science Center, Minnesota. A collection of 20 short term unique outdoor activities is offered in this package. The subject of a few of the activities is sand, rotting fruit, a light bulb, minnows, and goldenrod gland galls. Grades 1-12
A065	Outdoor Education at the Deserted Village Union County Outdoor Education Center.
A034	Outdoor Education on Your School Grounds Norman F. Marsh. Outdoor education is learning out-of-doors those facts, themes, and concepts that can best be learned outside the classroom.

ENVIRONMENTAL LABORATORY

Cat. No.	Description
A038	People and Their Environment Copyright 1968, 1969. J. G. Ferguson Publishing Company. Cyril Busbee. Outdoor Laboratory. Grades 2-12.
F053	Pigeons Urban Ecology Series. Ealing Corporations. One does not need to live in the suburbs or the country to study living things first-hand. Each film-loop in the series is a field trip, an exploration which will encourage your students to begin their own projects or to find living specimens to bring to class. Teacher guide and suggested lesson plan. Super 8 cartridge color film loop.
B076	Planning a Nature Center Copyright 1963, 1966. Nature Centers Division, National Audubon Society. Byron L. Ashbaugh, Associate Director, has prepared a thoroughly practical guideline on planning the nature center to help local government agencies, private groups, and interested individuals properly develop these projects.
A069	Planning a School Environment Copyright 1970. City of Hutchinson, Minnesota. Environmental Science Center. This booklet contains some philosophy, ideas for your school, plans for model areas, and development suggestions.
A045	Plant Study Union County Outdoor Education Center. Follow-up study of plants.
A046	Pond Life Study Union County Outdoor Education Center. Follow-up activities concerning the study of ponds.
A050	Science and Conservation in the Field J. Weston Walch, Publisher. Harold R. Hungerford. To help the teacher plan and execute science instruction in the field.
A051A	Soil Study Union County Outdoor Education. Follow-up material showing how to study soil.
A058	Woodland Crafts Union County Outdoor Educational Center. Step-by-step instructions showing how to make: (1.) Prints of leaves and plants, (2.) Plaster casts of footprints.
A008	The Community School Site--Laboratory for Learning United States Department of Agriculture. A brief sketch to a school site or outdoor laboratory.

ENVIRONMENTAL SURVIVAL

Cat. No.	Description
R18	Aesthetics for the Future Distributed by Indiana University. Ian McHarg, University of Pennsylvania. One-half hour program. Tape Recording.
H076	Agriculture and the Quality of Our Environment Copyright 1968. American Association for the Advancement of Science. Report on a symposium organized by the Section on Agriculture of the AAAS. This book brought together the pertinent facts about how agriculture affects the quality of our environment.
H091	The Children of Frankenstein Copyright 1970. Indiana University Press. Herbert J. Muller. A primer on modern technology and human values. "Just what has modern technology done TO as well as FOR people?" is the central question of this original and provocative book.
H090	Climate, Man and History Robert Claiborne. An exploration of the how, when, and why of climate and its effects on man and history. An account of what climate is and what determines it. How is man influencing climate? Can he control it, and if he can, will he?
R08	The Condition of the World Environment Distributed by Indiana University. Lamont Cole, Cornell University. One-half hour program. Tape Recording.
R13	Current Developments in Environmental Law Distributed by Indiana University. One-half hour program. Tape.
H105	Eco-Catastrophe Copyright 1970. Harper & Row. Editors of Ramparts. This book tells the story of mindless tampering with the natural order of dirty water, unbreathable air, oil-killed birds, radioactive debris and poison gases, noisy streets, junkyards, and of mother's milk polluted with strontium 90 and imperishable residues of DDT. It tells how greedy, careless, reckless people are dragging themselves down and taking with them everything trying to stay alive on the surface of the earth.
R11	Economic Planning to Protect the Environment Distributed by Indiana University. Allen Kneese, Resources for the Future. One-half hour program. Tape Recording.
F028	Environment: Changing Man's Values Guidance Associates. Analyzes the need for fundamental changes in our attitudes and relationships to the environment. Teacher's guide with filmstrips and records.
D007	Environmental Quality Transmitted to the Congress, August 1970. The first Annual Report of the Council on Environmental Quality.

ENVIRONMENTAL SURVIVAL

Cat. No.	Description
H093	The Environmental Revolution Copyright 1970. McGraw-Hill Company. Max Nicholson. The story behind a worldwide effort to check threats to the natural environment, its successes and setbacks, its weaknesses and strengths is here told for the first time by a man who is informed on the problems, personalities, thoughts, and feelings underlying it. Thus, a disturbing but stimulating book and not entirely discouraging view of the human species.
R15A	Federal Support of Environmental Studies Programs Distributed by Indiana University. John Brademas, U.S. Representative. One-half hour program. Tape Recording.
H036	The Fitness of Man's Environment Copyright 1968. Smithsonian Publication. Smithsonian Annual II. For those concerned with the future environment and the basis on which its elements are determined, developed, and safeguarded.
H014	Fresh Eggs, Vegetables and Violets Copyright 1970. Exposition Press, Incorporated. Else Fagrell. In this delightful book, young readers will meet a gallery of fascinating characters and a most unusual hero. The story of the struggle to preserve the natural beauty of the land against the forces of "progress" is a delightful journey into childhood. The book is a timely, intelligent treatment of the problems arising when progress threatens to intrude on the world nature created.
R03	The Great Debate Series Educational Sensory Programming, Inc. Over population--Government Control of Family Size? Pollution--Technology vs. Ecology. Tape.
R14B	The Impact of Technological Development on Values Distributed by Indiana University. Theodore Gordon, Institute for the Future. One-half hour program. Tape Recording.
R12	Man and the Environment: Political Perspective Distributed by Indiana University. Richard Levins, University of Chicago. One-half hour program. Tape Recording.
F038	Modern Biology: Environment and Survival. Group 1 Singer SVE. An excellent opportunity for students to study how living things relate to their environment. This series stresses the "new" ecological biology approach through brilliant full-color photos of plants and animals in their natural habitats. 1. Life in Relation to Environment 2. Life in the Forests 3. Life in Two Subtropical Communities 4. Life on Grasslands and Praries Junior-Senior High Set includes four filmstrips, two records, and four guides.

ENVIRONMENTAL SURVIVAL

Cat. No.	Description
F039	Modern Biology: Environment and Survival. Group 2 Singer SVE. Explains animal-environmental interdependence, plant-animal communities, importance of biotic and abiotic conditions such as topography, rainfall, and intra-species competition. 5. Life in a Sand Dune Succession 6. Life in a Bog 7. Life in an Alpine Environment 8. Life in a Fallen Log Microcommunity Junior-Senior High Set includes four filmstrips, two records, and four guides.
D020	The Next Hundred Years Copyright 1957, 1963. Viking Press. Harrison Brown, James Bonner, John Weir. A challenging exploration of the future of the earth's natural resources in relation to man and his technology. The Next Hundred Years is the result of a series of discussions between the authors and the chief executives of 30 of America's major corporations. The questions raised are vital to the future of our industrial civilization and the answers, "will determine whether our culture, nation, children, live or die."
D010	No Deposit--No Return Copyright 1970. Addison Wesley Publishing Company. Huey D. Johnson. Man and his environment: a view toward survival. The book is a primer for environmental awareness, and meant for all concerned citizens. It is ideally suited for a text in interdisciplinary courses treating the wide spectrum of man and his environment, and for supplementary use in introduction nonmajor biology courses.
H052	One Earth, Many People Copyright 1970. Lawrence Pringle, Collier Macmillan. Gives readers a preview of the world they will inherit and choices they will have to make. Ages 10 and up.
D052	The Only Earth We Have
D013	Operating Manual for Spaceship Earth Copyright 1969. Simon and Schuster. R. Buckminster Fuller. Buckminster Fuller traces man's intellectual evolution and weighs his capability for survival on this magnificent craft--Spaceship Earth. He notes that man must be educated right now to convert his tendency toward oblivion into a realization of his potential, to a universe-exploring advantage from his Spaceship Earth. This book is a blueprint for our future.

ENVIRONMENTAL SURVIVAL

Cat. No.	Description
F016	Our Land and Its Story SVE Educational Filmstrip. Illustrate and extend the elementary Social Studies curriculum with their colorful presentation of important aspects of our country's background and culture. These filmstrips deal with the growth of American civilization amid the influences of geography and the elements of nature, highlighting the interdependence of man and nature. Interest level 1-4. Reading level 3.
H092	The Politics of Ecology Copyright 1970. E. P. Dutton and Company, Inc. James Ridgeway. This book is a nationwide handbook for survival. The proposals for change suggested by the author are not meant as adjustments or reforms for controlling pollution. They represent different ways of attacking the source of pollution, thereby opening up possibilities for change.
R10	Population, Pollution, and Affluence Distributed by Indiana University. Herman Miller, U.S. Bureau of the Census. One-half hour program. Tape Recording.
H068	Problems of American Society: Values in Conflict Copyright 1948, 1951, 1956, and 1964 (fourth edition). Holt, Rinehart, and Winston, Inc. John F. Cuber, William F. Kenkel, and Robert A. Harper. A major part of the text in this fourth edition is new. The point of view, however, remains the same, namely, that the key focus for understanding social problems in a somewhat free and democratic society consists of an examination of "who wants what and why."
R15B	Project on the Predicament of Mankind. Distributed by Indiana University. Dennis Meadows, Massachusetts Institute of Technology. One-half hour program. Tape Recording.
H081	Since Silent Spring Copyright 1970. Frank Graham, Jr. Mr. Graham describes the background of a remarkable woman and scientist, the genesis of her book, and her reaction to the great controversy.
R16A	The State's Role in Land Planning and Environmental Quality Distributed by Indiana University. William Mott, State of California. One-half hour program. Tape Recording.
H060	The Subversive Science Copyright 1967. P. Shepard and D. McKinley. A collection of essays towards an ecology of man. Each of the thirty-six essays presented has something important to say about man's relationship to nature, not just as it has been but as it is now and will be.

ENVIRONMENTAL SURVIVAL

Cat. No.	Description
R14A	Technological Forecasting and Social Change Distributed by Indiana University. James Bright, University of Texas. One-half hour program. Tape Recording.
R09	This Finite Earth Distributed by Indiana University. Preston Cloud, University of California. One-half hour program. Tape Recording.

INTERDISCIPLINARY CURRICULUM

Cat. No.	Description
D001	The American Environment Copyright 1968. Published by Addison-Wesley Publishing Company. Roderick Nash.
H074	The American Experience Copyright 1971. Addison-Wesley Publishing Company. An American History text oriented toward environmental issues.
A027B	Angling for an Unknown Dimension--Mathematic The Environmental Education Instruction Plan, (EEIP) has been prepared in answer to the demand for usable curriculum materials for developing environmental awareness in today's students.
A066	Art and Conservation Teaching to Improve Man's Environment Indiana State Department of Public Instruction. A resource guide.
A003	Button Bag Environmental Science Center, Minneapolis. Buttons are used as a vehicle to introduce children to the study of statistics. They become aware of the factors which influence the validity of statistics. Grades 3-9.
D003	Career Opportunities--Ecology, Conservation, and Environmental Control Copyright 1971. J. G. Ferguson Publishing Company.
A070	The Center for Environmental Communication and Educational Studies Reprinted from Spring issue of Environmental Education, 1970. Fundamental Concepts for Environmental Management Education. Robert E. Roth. What a person should know about environmental management in order to function as an effective citizen. (K-16). Environmental Education: An Integrated Approach. David Archbald and Paul Gundlach. Fundamental concepts in action.
B009	The College, the Community, and Conservation Copyright 1967. Report of a conference of the college, the community and conservation.
A005	Color and Change Environmental Science Center, Minneapolis. Children become aware of color as an important property of natural materials and color change as a significant indicator of biological alternation of the factors which influence the validity of statistics. K-2.
D054	Designing Education for Tomorrow's Cities Copyright 1970. Holt, Rinehart, and Winston, Inc. Mario D. Fantini, Milton A. Young. The authors vigorously examine current educational systems and find them outmoded and inadequately structured. Considering major strategies for reforming these anachronistic systems,

Cat. No.	Description
	the authors use as a case study the development of the Fort Lincoln New Town school system which has been incorporated into this model city located outside Washington D.C.
B070	Directory Environment Education Facilities Prepared and published by National Audubon Society. This directory is the revised edition of the 1967 NATURE CENTERS AND OUTDOOR EDUCATION FACILITIES.
B016	Directory of National Organizations Concerned With Land Pollution Control Copyright 1970, September. Freed Publishing Company.
D004	Ecology--Life, Struggle, Survival Copyright 1970. Published by Addison-Wesley Publishing Company. L. McCombs, N. Rosa. An introductory study of the science of ecology. Suitable for studies on population, pollution, conservation changing urban life, Eco-political action with relevance for today's concerned students. Grades 7-8.
H089	Ecology and Resource Management Copyright 1968. McGraw-Hill Publishing Company, Kenneth E. Watt. The field of resource management has tended to fragment, and there is inadequate exchange of principles, theories, methods, and ideas about data processing and interpretation techniques among the various professional groups of resource managers. This book is intended to remedy this situation by providing a text for courses that cut across disciplinary lines and consider all resources on a comparative approach.
A010	Elementary Program in Science School District of University City, Missouri. Guidelines for developing skills in the field of science for elementary students.
B079	Environment and the Schools Copyright 1971. National School Public Relations Association. The editors of EDUCATION U.S.A. prepare special in-depth reports on current education issues and problems. The special reports are prepared when the editors decide that a new development in education is important enough to be covered in detail. Environment and the Schools is the 25th report in this series.
J02	Environmental Education Dembar Educational Research Services, Inc. A journal of research and development in environmental studies. Published quarterly.
A011	Environmental Education Copyright 1969. National Wildlife Federation. Wilhelmina Hill. Objectives and field activities.

INTERDISCIPLINARY CURRICULUM

Cat. No.	Description
A085	Environmental Education, Instructor January, 1971. This article gives information, ideas, and activities on environmental education designed to assist you in giving children a better understanding of the problem and its solution.
H101	Environmental Geology: Conservation, Land Use Planning, and Resource Management. Harper and Row, Publishers. Peter T. Flawn. Its general subject--long one of prime importance to geologists, ecologists, conservationists--recently has become a major concern of the man in the street, a viable issue cherished by politicians and would-be office holders, and a growing preoccupation of architects, sociologists, reformers, urban designers, and national planners.
D036	Environmental Health Planning Copyright 1971. Published by the United States Department of Health, Education, and Welfare Public Health Service. This book briefly describes environmental health problems and the need for planning, a description is offered of urban and regional planning, comprehensive health planning, and principles of program planning.
A061	Environmental and Outdoor Education Projects New Jersey State Council for Environmental Education. Compilation of projects in the state of New Jersey.
D007	Environmental Quality Transmitted to the Congress, August 1970. The First Annual Report of the Council on Environmental Quality.
A012	Field Math Union County Outdoor Educational Center. Follow-up material on outdoor math.
B022	Focus on Environmental Education The book offers a reationale for environmental education, listing some guidelines and explaining in detail how an environmental education program can be organized. Other sections have specific suggestions on how to intergrate aspects of environmental education with the various disciplines in a school curriculum.
H037	Forestry and Its Career Opportunities Copyright 1952. Published by McGraw-Hill Book Company. Hardy Shirley. To help beginning students understand the many facets of forestry deciding if forestry is to be their life career.
B008A	Free Films on Air Pollution Published by the National Medical Audiovisual Center. The theme of this booklet is public concern for air pollution. The booklet explains how the major provisions of the Clean Air Act can affect all of us.

INTERDISCIPLINARY CURRICULUM

Cat. No.	Description
D009	Free and Inexpensive Learning Materials Joe Jackson. Fifteenth Biennial Edition.
A075	Guide to Environmental Education Published by Conservation Committee of the Madison Public Schools, Madison, Wisconsin. Conservation of natural resources. Teachers are encouraged to develop teaching concepts in six major areas: soil, water, minerals, wildlife, plants, and recreation. Teachers can intergrate conservation attitudes, appreciations, and basic understandings in science, social studies, and language arts, and other subject fields. Grades K-6.
A016	Guidelines for Environmental Sensitivity Pennsylvania Department of Education. To help classroom teachers to create an interest in conservation problems that will stay with pupils and add meaning to their lives.
B078	How to Design Educational Games Copyright 1970. Ray Glazier. A design manual for teachers and curriculum developers.
A021	Interdisciplinary Outdoor Education Shoreline School District #412, Seattle, Washington. A start to fulfill the need to establish an awareness that the out-of-doors provides as a framework in which a wide variety of subject areas can interact in an way which will be mutually enriching.
A027C	Inviting Involvement in History, Social Studies Published by Conservation and Environmental Studies Center, Inc. Edited by V. Eugene Vivian, and Norma T. Vivian. This environmental education instruction plan (EEIP) has been prepared in answer to the demand for usable curriculum materials for developing environmental awareness in today's students.
A022	Language Arts Union County Outdoor Educational Center. Follow-up material concerning creative expression.
D028	List of Available Publications of the United States Department of Agriculture. Compiled by Mildred Fortson, issued May, 1969. A list of available publications from the Department of Agriculture and how to obtain them.
A023	Local Education Agency Guidebook for Resident Environmental Education Programs. Prepared by the Conservation and Environmental Science Center.

INTERDISCIPLINARY CURRICULUM

Cat. No.	Description
D045	Man and Food Copyright 1970. McGraw-Hill Company. Magnus Pyke. This book sets out to review the present state of our knowledge on food. Dr. Pyke first discusses the chemical composition of foods. The second part of the book covers the science of nutrition. The last section deals with food technology.
A024	Man and His Environment Copyright 1970. Published by the National Education Association. An introduction to using environmental study areas.
D044	Man's Impact on the Global Environment This Report of the Study of Critical Environmental Problems presents the results of an interdisciplinary examination of the global climate and ecological effects of man's activities. The focus is on environmental problems which have worldwide significance. M.I.T.
A027A	Manual for College Participants in Environmental Education Programs Published by Conservation and Environmental Studies Center, Inc. This book is intended to describe in some detail the program and purposes of the Conservation and Environmental Science Center.
B073	Movies About Oil Prepared by the Committee on Public Affairs. A catalog of motion pictures of general interest about petroleum.
D018	Natural Resources and the Political Struggle
A029	Nature's Art Environmental Science Center, Minnesota. A collection of techniques for displaying, reproducing, or using natural items as media. Grades 3-6
D033	A New Look at Elementary School Science Copyright 1967. Rand McNally and Company. Robert Karplus and Herbert D. Thier.
D010	No Deposit--No Return Copyright 1970. Addison Wesley Publishing Company. Huey D. Johnson. Man and his environment: A view toward survival. The book is a primer for environmental awareness, and meant for all concerned citizens. It is ideally suited for a text in interdisciplinary courses treating the wide spectrum of man and his environment, and for supplementary use in introduction nonmajor biology courses.
A086	Oceanography: Environmental Approach to Marine Science Oceanography Unlimited, Inc. 1970. Curriculum guide for studying ocean environment. High school grade level.

INTERDISCIPLINARY CURRICULUM

Cat. No.	Description
H097	Opportunities in Environmental Careers Copyright 1971. Universal Publishing & Distributing Company. Odom Fanning. Here is a comprehensive book that, for the first time, analyzes all of the existing and emerging career opportunities in the broad environmental field. It points out what kinds of manpower will be needed in the various branches of environmental management, and it discusses specifically the basic information needed by anyone wanting to seek a career in one of the many areas developing in this important field.
H077	Outlines of Environmental Education Copyright 1971. Clay Schoenfeld. The overall goal of this book is to help professionalize the new field of environmental education. The measure of its success will be the degree to which it is of service to the growing numbers of people engaged systematically in relating man to his world.
A037	People and Their Environment Home Economics. Copyright 1968, 1969. Published by the J.G. Ferguson Publishing Company. Cyril Busbee. Grades 9-12.
A039	People and Their Environment Science. Copyright 1968, 1969. Published by the J. G. Ferguson Publishing Company. Cyril Busbee. Grades 7-9.
A040	People and Their Environment Social Studies. Copyright 1968, 1969. Published by the J. G. Ferguson Publishing Company. Cyril Busbee. Grades 7-9.
A041	People and Their Environment Social Studies. Copyright 1968, 1969. Published by the J. G. Ferguson Publishing Company. Cyril Busbee. Grades 10-12.
A044	Photography for Kids Environmental Science Center. This guide includes complete instruction for using photography with children. It also includes suggested problems to pose to the children so that they will become aware of stopping time with a camera, seeing interesting patterns, and using light.
D053	Probing the Depths for Knowledge Oceanography Unlimited, Inc., 1969. Educational catalog.
A047	Programs in Environmental Education Descriptions of more than 50 programs that have material or can respond to inquires.
C13	Ranger Rick's Health and Growth Chart. Published by the National Wildlife Federation.

INTERDISCIPLINARY CURRICULUM

Cat. No.	Description
B077	The 70's Decade of Environmental Decision Environmental Science Center. Education and action guidelines.
B052	State Department of Education Personnel Responsible for Environmental Education. United States Department of Health, Education, and Welf Office of Education.
A027E	Tuning Up the Five Senses Published by the Conservation and Environmental Studies Center. Edited by Eugene Vivian and Norma T. Vivian. This environmental education instruction plan (EEIP) has been prepared in answer to the demand for usable curriculum materials for developing environmental awareness in today's students.
A059	Vacant Lot Studies Environmental Science Center, Minnesota. This lesson united the disciplines of social studies, ecology, and mathamatics around the study of a vacant lot. Grades 5-9.
A057	Vital Views of the Environment Presents concepts and major ideas in relation to the environment through short excerpts from speeches and writings on the theme.
A084	Index to Ecology--Multimedia Copyright 1971. Published by the University of Southern California. Brings together a comprehensive bibliographical listing of non-book media titles on this important subject. Volume contains over 7,000 titles dealing with the preservation of our environment.
A013	Geology Union County Outdoor Educational Center. Follow-up material concerning geology.

MAPPING

Cat. No.	Description
A031	Orienteering and Compass Union County Outdoor Education Center. Follow-up material using the compass.
C04	Further Development of Scale Looking at more complex maps. Copyright 1968. J. C. Enterprices, Inc. Donald Thompson & Stacey Peterson. Grades 2-8.
C05	Improving Map Reading Skills Set I Copyright 1968. J. C. Enterprices, Inc. Dr. John Q. Adams. To improve your map reading skills. Jr. High Level.
C06	Improving Map Reading Skills Set II Copyright 1968. J. C. Enterprices, Inc. Dr. John Q. Adams. To improve your map reading skills. Jr. High Level.
C08	Introduction and Developing of Scale and Legend Copyright 1968. J. C. Enterprices, Inc. Donald Thompson and Stacy Peterson. Grades 2-5.
C09	Introduction of Map Reading Vocabulary Set A Copyright 1968. J. C. Enterprices, Inc. Donald Thompson and Stacy Peterson. Grades 1, 2, and 3.
H083	Mapping Copyright 1944 and 1951. David Greenhood. Mapping explains how to feel at home with all kinds of maps; how to know good maps from bad; how to make your own maps; how to do your own surveying for a map with the use of a few simple homemade or inexpensive devices; how to collect maps as a specialist and care for them.
M0877	Index Map--State of Arizona Project Outreach has a complete set of United States Department of the Interior Geological Survey Maps of the State of Arizona. You may obtain these maps by ordering the State of Arizona Index Map.

OUTDOOR EDUCATION

Cat. No.	Description
A001	Access to Our Natural World Union County Outdoor Education Center. Project description.
H018	All About Camping Copyright 1962, 1963. Published by the Stackpole Company. By W. K. Merrill. Designed to add comfort and enjoyment as you find new experiences in the great out-of-doors.
F071	American Prairie Ecology of the United States Series. Ealing Corporation. What characteristics does an animal need to survive on the prairie? With this series of film-loops you can show your students the basic characteristics of the terrain, the marvelously adapted plant and animal life. Super 8 cartridge color film-loop.
A072	Animal Adaptation to Environment Milwaukee Public Schools. A visit to the outdoor education mobile laboratory. A teacher's guide. A large house-trailer which will be brought to a school upon request. It is intended to serve as a teacher-in-service training center as well as a resource for students.
B001	Arizona Firearms Safety Published by the Arms and Ammunition Manufacturers Institute. Laws and regulations concerning firearms. How to use firearms safely.
H071	The Art of Plug Fishing Copyright 1965. Published by the Stackpole Company. By Homer Circle.
H072	Boating and Fishing Almanac Copyright 1965, 1966, 1967, 1968, 1969. Published by Commander William Berssen. By Commander William Berssen USCGR.
H023	The Book of Trees Copyright 1957, 1962. Published by the Stackpole Company. By William Carey Grimm. A non-technical reference with at-a-glance keys to what makes each tree different.
H021	Border-to-Border Camping Trips Copyright 1966. Published by the Stackpole Company. By Glenn and Dale Rhodes. Campground and their facilities along or near 15 coast-to-coast and 19 border-to-border U.S. Highways to camp your entire way around the country.
H022	The Boy's Book of Backyard Camping Copyright 1968. Published by the Stackpole Company. By Allan A. Macfarlan. At-your-doorstep way to become a skilled camper at home, in the outdoors, anywhere.

OUTDOOR EDUCATION

Cat. No.	Description
P30	Broadleaf Trees Singer SVE. 1. Red Oak 2. Mountain Ash 3. Quaking Aspen 4. Ohio Buckeye 5. Flowering Dogwood 6. American Elm 7. Sugar Maple 8. Weeping Willow
A004	Camping School District of University City. Camp White Cloud. School camp manual.
H024	Camping for Boys and Girls Copyright 1966. Published by Follet Publishing Company. By Tom McNally. A famed outdoorsman helps you get the most out of camping.
D002	Camping and Camp Cookery Copyright 1950. Published by Collier Books. By Frank Dufresne. A first aid to fuller enjoyment in the out-of-doors through cooking.
H025	Camping Manual Copyright 1967. Published by the Stackpole Company. By Fred Sturges. A camper's yearbook for up-to-date camping. New experience and comfort making tools, best of outdoor visiting.
G04	Circular Jigsaw Puzzle Charles Ripper. Everglades National Park. Grades 4-6.
P28	Common Fruits Singer SVE. 1. Strawberry 2. Banana 3. Blackberry 4. Date 5. Grape 6. Orange 7. Peach 8. Pear
F070	Coniferous Forest Ecology of the United States Series. Ealing Corporation. With this series of film-loops you can show your students the basic characteristics of the terrain, the marvelously adapted plant/animal life. Super 8 cartridge color film-loop.
H028	Cooking and Camping on the Desert Copyright 1966. Published by the National Naylor Company. By Choral Pepper. The basics of cooking on the desert, by a lake, in the middle of nowhere, or anywhere! An amazing variety of dishes.
H030	Coping with Camp Cooking Copyright 1966. Published by the Stackpole Company. By Mae Webb Stephens and George S. Wells. Time and trouble-saving hints and campground proved recipes.

OUTDOOR EDUCATION

Cat. No.	Description
F057	Cracks in the Pavement Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things first-hand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
B012	Creative Native Crafts Copyright 1959. Published by Burgess Publishing Company. By R. O. Bale. The development of craft projects using inexpensive materials available in nature.
F055	Dandelions Urban Ecology Series. Ealing Corporation. Each film-loop in the series is a field-trip, an exploration which will encourage your students to begin their own projects. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
F069	Deciduous Forest Ecology of the United States Series. Ealing Corporation. With this series of film-loops you can show your students the basic characteristics of the terrain, the marvelously adapted plant/animal life. Super 8 cartridge color film-loop.
H032	The Deer Hunter's Guide Copyright 1964. Published by the Stackpole Company. By Francis Sell. Tells how to hunt deer successfully, select arms and ammo trails, learning deer habits, still hunting, stalking, driving, cleaning, and butchering.
B014	The Desert Speaks Copyright 1965. Published by Betts Printing Company and illustrated by Hollis Photo-Engraving Company. By William H. Carr. Illustrations and descriptions of various living and nonliving things from the Arizona-Sonora Desert Museum.
B017	Discovering Your Environment By Myron Chase. Purpose: To creat involvement, understanding and willingness to work and pay for environmental improvements.
D040	Diversions and Pastimes Copyright 1964. By R. M. Abraham. Offering hours of lively entertainment and fun, this book will be a boon to anyone in charge of a group of youngsters: teachers, scoutmasters and den mothers, camp counselors, Sunday School teachers, club advisors, etc. Other sections include knot and string games, paper folding and cutting, and miscellaneous tricks, such as telling time by the north star, card tricks, magic squares, and others.

OUTDOOR EDUCATION

Cat. No.	Description
F097	Earth Science: Our National Parks Series 2. Imperial Film Company. (1) Big Bend Texas: Geological layers from various eras, subsequent work of running water. (2) Bryce Canyon, Utah: Formation of vast rock sculptures from beginning to vanishing. (3) Grand Tetons, Wyoming: Classic example of mountain range created by the pushing up of masses of rock. (4) Yellowstone Wyoming: Various types of geyser activity, from Old Faithful to the mud-pots. Set of 4 filmstrips, 2 records.
A011	Environmental Education Copyright 1969. National Wildlife Federation. By Wilhelmina Hill. Objectives anf field activities.
A071	Environmental Inquiries Milwaukee Public Schools. A visit to the outdoor education mobile laboratory. A teacher's guide. A large house-trailer which will be brought to a school upon request. It is intended to serve as a teacher-in-service training center as well as a resource for students.
A061	Environmental and Outdoor Education Projects New Jersey State Council for Environmental Education. Compilation of projects in the state of New Jersey.
F094	Everglades, Florida Earth Science: Series 1. Our National Parks. Imperial Film Company, Inc. Subtropical environment occupies the greater part of southern Florida south of Lake Okeechobee. The prevalent plant form is saw grass. The black muck is the result of millions of years of vegetable decay. Vast mangrove forests serve as rookeries for rare birds and other animals from insects to mammals. Inter-Jr.-Sr. High
P36	Familiar Cloud Forms Singer SVE 1. Cumulus (Fair Weather) 2. Cumulus (Towering) 3. Cumulonimbus 4. Altocumulus 5. Cirrus 6. Cirrostratus 7. Stratocumulus 8. Fog
H005	A Field Guide to the Ferns Copyright 1963. Published by Houghton Mifflin Company. By Boughton Cobb. Identification and illustration of the ferns of a major portion of the North American Continent.
H009	A Field Guide to Rocky Mountain Flowers Copyright 1963. Published by Houghton Mifflin Company. By John J. Craighead, Frank C. Craighead, Jr., and Ray J. Davis. A guide to identification of flowers and a source of richer knowledge about plants, their habitats, and the associated forms of wildlife.

OUTDOOR EDUCATION

Cat. No.	Description
H010	A Field Guide to Shells Copyright 1966. Published by Houghton Mifflin Company. By Percy A. Morris. A shortcut to recognizing and naming the multitude of living things that populate America.
H011	A Field Guide to the Shells of our Atlantic and Gulf Coasts Copyright 1951. Published by Houghton Mifflin Company. By Percy A. Morris. Contains over 500 different kinds of shells. Illustrated.
H012	A Field Guide to the Stars and Planets Copyright 1964. Published by Houghton Mifflin Company. By Donald Menzel. This text provides the reader with a pictorial road map to sky watching with binocular or telescope.
H013	A Field Guide to Trees and Shrubs Copyright 1958. Published by Houghton Mifflin Company. By George A. Petrides. Identification of the trees and vines of northeastern and central North America.
H016	A Field Guide to Wildflowers Copyright 1968. Published by Houghton Mifflin Company. By Roger Tory Peterson and Margaret McKenny. Provides shortcuts to identification that make it easier to recognize flowers by sight. Illustrated.
A012	Field Math Union County Outdoor Educational Center. Follow-up material on outdoor math.
H035	First Camping Trip Copyright 1955. Published by Coward McCann, Inc. By C. B. Colby. How to make it easier and more comfortable.
H070	The Fisherman's Almanac Copyright 1970. Published by the MacMillan Company. By Dan Morris and Norman Strung.
F059	Garbage Dumps Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things firsthand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
A013	Geology Union County Outdoor Educational Center. Follow-up material concerning geology.

OUTDOOR EDUCATION

Cat. No.	Description
H039	Getting Out of Outdoor Trouble Copyright 1965. Published by the Stackpole Company. By W. K. Merrill. The life-saving handbook on dealing with emergencies. For careful families, outdoorsmen, boaters, and vacationers.
A014	Good Teaching Aids Audubon Aids. 1. How to lead a field trip 2. Natural resources in the city 3. Mysteries of bird migration 4. Rock stories/how to read them 5. The terrarium, a miniature garden under glass 6. Some adventures with wild plants outdoors/indoors 7. Plant propagation in the classroom 8. Things to do in nature 9. How to build a nature trail 10. Trees are history books 11. Forecasting the weather 12. Schoolyard Laboratories 13. Nature quiz electric nature game
F063	Grass Backyard Ecology Series. Ealing Corporation. This series is a guide to a child's backyard. What is to be found in a rotting stump, beneath a rock, or under the leaves of the forest floor? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
F095	The Great Smoky Mountains Earth Science: Our National Parks. Series 1. Imperial Film Co. Inc. The Great Smoky Mountain national park was established in 1934 to preserve the last remaining large area of southern primevel hardwood forest in the U.S. A variety of plant forms may be seen. Wildflowers, birds, and mammals are shown. Inter-Jr.-Sr. High.
A019	Guide to Nature's Laboratory School District of University City, Missouri. Gives an overview of the general area for the one-time field trip as well as gives breakdowns of particular areas for more specialized study trips.
H041	Happier Family Boating Copyright 1966. Published by the Stackpole Company. By George S. Wells. Tells safer ways of making boating fun and for less money.
H042	Happier Family Camping Copyright 1965. Published by the Stackpole Company. By George S. Wells. The book tells of painless ways to endure through bugs, rain, wind, cold, ashes in the beans. How to live through the problems and hazards for more pleasure.
H040	Home in Your Pack Copyright 1965. Published by the Stackpole Company. By Bradford

OUTDOOR EDUCATION

Cat. No.	Description
	Angier. Packs in the experience and tips about traveling with what you can carry so your outdoor adventure is a happier one.
B065	How to Catch Fish in Fresh Water Published by Fisherman's Information Bureau. Text and illustrations by Bob Cary. Fishing does have its own special equipment and skills. Indeed it is the purpose of this pamphlet to show and tell you something about both.
A020	Integrating Conservation and Outdoor Education into the Curriculum Copyright 1965. Published by the Burgess Publishing Company. By William Stapp. Answers the questions of how we can best integrate an adequate program of conservation into a public school program. (K-12)
A021	Interdisciplinary Outdoor Education Shoreline School District #412, Seattle, Washington. A start to fulfill the need to establish an awareness that the out-of-doors provides a framework in which a wide variety of subject areas can interact in a way which will be mutually enriching.
G22	Kids, Cameras, and Communities Selective Educational Equipment, Inc. Basic camera kit for a group of 15 students. Includes: instructions, cameras, film, and processing equipment. Students are involved in a total productive effort in environmental awareness.
P10	Land Forms of Running Water SVE Educational. Teacher's guide. 1. Mature Stream Topography 2. Youthful Stream Topography 3. Delta 4. Braided Stream 5. Alluvial Fan 6. Waterfall 7. Canyon Lands 8. Natural Bridge
A022	Language Arts Union County Outdoor Educational Center. Follow-up material concerning creative expression.
F065	Leaf Litter Backyard Ecology Series. Ealing Corporation. This series is a guide to a child's backyard. What is to be found in a rotting stump, beneath a rock, or under the leaves of the forest floor? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
H045	Learning About Nature Through Games Published by the Stackpole Company. By Virginia W. Musselman. Tells how games can awaken a child's sense of wonder and restore his kinship with his natural environment.

OUTDOOR EDUCATION

Cat. No.	Description
F050	Let's Explore the Desert Exploring the World of Nature Series. Group 2 Singer SVE. An ecological approach to nature study. Plant/animal survival. Man's effects on desert life. 51 frames. Inter-Jr. High
F049	Let's Explore the Dunes Exploring the World of Nature Series. Group 2 Singer SVE. An ecological approach to nature study. Dune formation and movement. Plant effects on dunes and animal survival in sand. 51 frames. Inter-Jr. High
F041	Let's Explore a Field Exploring the World of Nature Series. Group 1 Singer SVE. Animal and plant life in natural settings. Winter shelter, food. An ecological approach to nature study. Inter-Jr. High
F042	Let's Explore a Garden Exploring the World of Nature Series. Group 1 Singer SVE An ecological approach to nature study. Life in a garden. 48 frames. Inter-Jr. High
F043	Let's Explore a Lawn Exploring the World of Nature Series. Group 1 Singer SVE. Common weeds, desirable grasses, effect of too much fertilizer. Animal life in lawn and what it does. 51 frames. Inter-Jr. High
F044	Let's Explore a Pond Exploring the World of Nature Series. Group 1 Singer SVE. An ecological approach to nature study. Plant and animal life in a pond. 50 frames. Inter-Jr. High.
F052	Let's Explore a Salt Marsh Exploring the World of Nature Series. Group 2 Singer SVE. Plant and animal adaptations to salt marsh. How salt marsh differs from other grasslands. 49 frames. Inter-Jr. High
F051	Let's Explore the Shore Exploring the World of Nature Series. Group 2 Singer SVE. An ecological approach to nature study. Seashore life. Tidal zones for plants/animals; tidepool life. 51 frames. Inter-Jr. High
F045	Let's Explore a Stream Exploring the World of Nature Series. Group 1 Singer SVE. An ecological approach to nature study. Plants and animals of various habitats. Pollution damage. 50 frames. Inter-Jr. High
F046	Let's Explore a Woodland Exploring the World of Nature Series. Group 1 Singer SVE. An ecological approach to nature study. 47 frames. Inter-Jr. High

OUTDOOR EDUCATION

Cat. No.	Description
B030	Let's Go Camping Copyright 1960. Distributed by the Shell Oil Company. By Carol Lane. Tells what equipment to use, where the equipment can be found, and how much equipment you need to go camping successfully. Tells what kind of clothing to take, what meals are best to prepare and what recreation can be found.
F066	Log Backyard Ecology Series. Ealing Corporation. This series is a guide to a child's backyard. What is to be found in a rotting stump, beneath a rock, or under the leaves of the forest floor? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
F093	Mammoth Cave, Kentucky Earth Science: Our National Parks. Series. Imperial Film Co., Inc. Tour of underground passages consisting of limestone, gypsum, and cave onyx formation. An amazing series of underground rivers and lakes and other examples of the action of water make this national park of particular interest to students of natural science. Inter-Jr.-Sr. High
A024	Man and His Environment Copyright 1970. Published by the National Education Association. An introduction to using environmental study areas.
B072	Manual of Outdoor Conservation Education. Copyright 1968. Published by National Audubon Society. By Joseph J. Shomon. The purpose of this manual is to put into proper perspective some concepts in outdoor conservation education and to bring together in one brief volume some guidelines for leaders on how they can do a better teaching job when using the outdoor environment as a classroom.
B069	Manual of Outdoor Interpretation Copyright 1968. National Audubon Society. Edited by Joseph Shomon. How do you teach people about nature? This is a book of answers written out of experience by practicing experts in the field.
A074	Minute Plants and Animals Milwaukee Public Schools. The outdoor education mobile laboratory. A large trailer which will be brought to a school upon request. It is intended to serve as a teacher-in-service training center as well as a resource for students. Grade 6.
A028	Micro-Climate Measuring Techniques Environmental Science Center. Contains measuring devices to show that there are variable conditions which combine to make our

Cat. No.	Description
	weather. The instruments are small enough and sensitive enough so they can be used to show small differences in the environment in a limited area, such as your school yard. Grades 3-9.
H047	Modern ABC's of Bird Hunting Copyright 1966. Published by the Stackpole Company. By Dave Harbour. This book provides factual and updated information which all hunters, and especially the urban hunters, need in order to find and hunt any game bird successfully.
H048	Modern ABC's of Fresh Water Fishing Copyright 1965. Published by the Stackpole Company. By John Crowe. Fundamental for taking trout, bass, pike, muskies, walleyes, pickerel, and the practice and psychology of successful catching even in hard-fished waters.
H049	Modern ABC's of Ice Fishing Copyright 1966. Published by the Stackpole Company. By Jerry Chiapetta. Comfortable, safe, big-catch ways of angling through a hole. Baits, lures, methods for panfish of trout. State and province rundown on where and how to enjoy winter fishing in North America.
P29	Moths and Butterflies Singer SVE. 1. Tiger Swallowtail 2. Buckeye Butterfly 3. Fritillary Butterfly 4. Viceroy Butterfly 5. Cloudless Sulphur 6. Cecropia Moth 7. Polyphemus Moth 8. Promethea Moth
B038	NRA Hunter Safety Handbook By the National Rifle Association. Teaches proper gun handling in circumstances related to hunting. Basic information about guns, especially as applied to their safety.
H050	The New Fisherman's Encyclopedia Copyright 1963. Published by the Stackpole Company. Answers all kinds of questions for all kinds of people who like all kinds of fishing.
F096	Okefenokee Swamp, Georgia Earth Science: Our National Parks. Series 1. Imperial Film Co., Inc. In this natural life refuge is found an almost bewildering complexity of plant and animal forms. Exotic plant forms of the typical southern swamp are seen. Some of the over 200 species of birds are also shown. Inter-Jr.-Sr. High
A032	Our Natural Resources Union County Outdoor Education Center. A follow-up material concerning our natural resources.

OUTDOOR EDUCATION

Cat. No.	Description
A033	Outdoor Activities Collection Environmental Science Center, Minnesota. A collection of 20 short term unique outdoor activities is offered in this package. The subject of a few of the activities is sand, rotting fruit, a light bulb, minnows, and goldenrod gland galls. Grades 1-12.
H067	Outdoor Education Copyright 1963. By Julian W. Smith, Reynold Carlson, George W. Donaldson, and High B. Masters. The out-of-doors, with the treasure of activity it offers, is one of America's most precious resources. This book is for people with a vital interest in that treasure.
A065	Outdoor Education at the Deserted Village Union County Outdoor Education Center.
A034	Outdoor Education on Your School Grounds Norman F. Marsh. Outdoor education is learning out-of-doors those facts, themes, and concepts that can best be learned outside the classroom.
B043	The Park Idea and Ecological Reality By F. Fraser Darling. Explains the national park idea and how it should be able to work.
A042	People and Their Environment Copyright 1969. Published by the J. G. Ferguson Company. By Cyril Busbee. Grades 1-3.
A043	People and Their Environment Copyright 1969. Published by the J. G. Ferguson Company. By Cyril Busbee. Grades 4-6.
A038	People and Their Environment Outdoor Laboratory. Copyright 1969. Published by the J. G. Ferguson Company. By Cyril Busbee. Grades 2-12.
P32	Pets Singer SVE 1. Parakeets 2. Collie & Pups 3. Cat 4. Ducklings 5. Pet Rabbit 6. Hamster 7. Goldfish 8. Turtle
A044	Photography for Kids Environmental Science Center. This guide includes complete instruction for using photography with children. It also includes suggested problems to pose to the children so that they will become aware of stopping time with a camera, seeing interesting patterns, and using light.

OUTDOOR EDUCATION

Cat. No.	Description
F053	Pigeons Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things first-hand. Each film-loop in the series is a field trip, an exploration which will encourage your students to begin their own projects or to find living specimens to bring to class. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
B044	Pioneering By Boy Scouts of America. Tells how to tie knots in ropes, make pulleys out of bare necessities, build log bridges, and other types of pioneering construction.
B076	Planning a Nature Center Copyright 1966. Published by the Nature Centers Division, National Audubon Society. To help local government agencies, private groups, and interested individuals properly develop these projects. Byron L. Ashbaugh, Associate Director, Nature Centers Divisions, National Audubon Society, has prepared a thoroughly practical guideline on planning the nature center.
A045	Plant Study Union County Outdoor Education Center. Follow-up study of plants.
H055	Pocket Guide to Archery Copyright 1967. Published by the Stackpole Company. By Howard T. Sigler. Steer beginners to the right equipment, stance, practice techniques sighting for field and target shooting.
A046	Pond Life Study Union County Outdoor Education Center. Follow-up activities concerning the study of ponds.
B046	The Public Domain The United States Printing Office. A brief historical sketch of the great land inheritence and how it has enchanced a nation.
H088	Reading the Woods Copyright 1969. Published by the Stackpole Company. By Vinson Brown. More surely than a palmist reads a lifeline, wood walkers--or those passing by car--can read the past, present, and a great deal about the immediate future of a given forest area with these explicit directions for finding and understanding the clues left by nature and man.
H073	Recognizing Native Shrubs Copyright 1966. Published by Stackpole Company. William C. Grimm.

OUTDOOR EDUCATION

Cat. No.	Description
S023	Recreation or Wreck-Creation Good Outdoor Manners Association (GOMA) A 25-minute program of 35mm color slides with taped commentary presents the problems of abuse and damage to outdoor recreation areas and the costs to the taxpayer. Photographs of scenic beauty, animals, and geological formations. There are suggestions as to how damage can be avoided and what actions can be taken by individuals, organizations, or communities to protect recreation areas.
F064	Rock Backyard Ecology Series. Ealing Corporation. This series is a guide to a child's backyard. What is to be found in a rotting stump, beneath a rock, or under the leaves of the forest floor? This film reveals a tiny habitat which illustrates in miniature the basic ecological priniciples governing the entire world. Super 8 cartridge color film-loop.
F092	The Role of Trees in the Environment Imperial Film Company, Inc. (1) Trees: Earth's Largest Life Forms (2) The Life Cycle of Trees (3) Trees and Physical Environment (4) Trees and Living Environment. This series provides the classroom with a serious photographic essay on the tree as a life form. The tree, rather than smaller plants, was chosen because the widespread geographic distribution of the trees is not confused by a widely varying basic structure. Inter-Jr. High 4 filmstrips, 4 records.
G14	Romance of the Flowers Maynard Reece. Puzzle with more than 500 pieces. Grades 4-6.
F067	Sand Backyard Ecology Series. Ealing Corporation. At the beach, is the sand as lifeless as it appears? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
A050	Science and Conservation in the Field J. Weston Walch, Publisher. By Harold R. Hungerford. To help the teacher plan and execute science instruction in the field.
D012	The Sierra Club Wilderness Handbook Copyright 1968. Published by Ballantine Books, Inc. By David Brower. A guide to successful camping and travel in the wilderness.
H057	Skills for Taming the Wilds Copyright 1967. Published by the Stackpole Company. By Bradford Angier. Offers the complete lowdown on civilizing the wilderness while traveling light and making do with little. For all outdoorsmen who like to live next to nature a bit.

OUTDOOR EDUCATION

Cat. No.	Description
A067	Soil Conservation United States Department of Agriculture. Outdoor learning at school. August, 1970.
A051A	Soil Study Union County Outdoor Education. Follow-up material showing how to study soil.
P26	Spring Wild Flowers Singer SVE 1. Jack-in-the Pulpit 2. White Trillium 3. Dogtooth Violet 4. Bloodroot 5. Skunk Cabbage 6. May Apple 7. Blue Violet 8. Spring Beauty
H059	Streamer Fly Tying and Fishing Copyright 1960. Published by the Stackpole Company. By Joseph D. Bates Jr. Shows how to use the right streamer of bucktail, how to fish flies in any depth or current of water, from ponds to beaches using the right tackle, and how to use it for best results.
A051B	Student's Handbook Union County Outdoor Education Center, New Jersey. Camp Minisink. An example of a perfect camp-out for youngersters.
B053	Survival in the Woods Union County Outdoor Educational Center. Tells how to apply first aid, and how to eat wild foods in the woods.
A052	A Syllabus for an Introduction to Ecology for Elementary Teachers Published by Southeastern Pennsylvania Outdoor Education Center. A course of study for undergraduate students in outdoor education.
H061	Teaching Kids to Shoot Copyright 1966. Published by the Stackpole Company. By Henry M. Stebbins. Safe ways to get youngsters started right in practicing fundamental skills for lifelong enjoyment in using rifles, shotguns, handguns.
F068	Tidepool Backyard Ecology Series. Ealing Corporation. What is left in the rocky pools when the tide goes out? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
B071	Trail Planning and Layout Copyright 1967. Published by National Audubon Society. By Byron L. Ashbaugh. Drawing by Robert F. Holms. The National Audubon Society has long stressed the value of and the need for more effective out-

Cat. No.	Description
	door interpretation, both in method and technique, and has itself employed effective teaching techniques in its own program of nature education at Audubon camps and centers.
F054	Trees Urban Ecology Series. Ealing Corporation. Each film-loop in the series is a field-trip, an exploration which will encourage your students to begin their own projects. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
A056	Using the Natural Environment of the City as a Curriculum Development Operation: New York. Bureau of Curriculum Development; Board of Education; City of New York. Resource guide for urban and outdoor education. Grades K-8.
F058	Vacant Lots Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things firsthand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
B056	Values of Hunting and Fishing in Arizona Copyright 1967. Published by the Arizona Board of Regents. By William C. Davis. Provides current information for use in improving the management of the state's sport fish and game resources and the outdoor recreation which they support.
F056	Walls as Habitats Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things firsthand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
F061	Water in the City Urban Ecology Series. Ealing Corporation. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
S019	Wild Flowers J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.

OUTDOOR EDUCATION

Cat. No.	Description
H064	Wilderness Cookery Copyright 1963. Published by the Stackpole Company. By Bradford Angier. Furnishes recipes and advice for more complete outdoor meals.
C12	Wildflowers of North America Copyright 1967. National Wildlife Federation. Forty-eight color illustrations of wildflowers of North America with a brief description of each flower.
H065	Wildwood Wisdom Copyright 1945. Published by the MacMillan Company. By Ellsworth Gaeger. A practical, comprehensive, authoritative guide to camping and woodsmanship for both experiences woodman and beginning camper.
F026	The Wisdom of Wildness Guidance Associates. Students see wilderness through their own experience and are asked to reevaluate the meaning of progress. Teacher's guide and filmstrips with records.
D026	Woodall's Travel-Camping the Four Seasons Copyright 1969. Published by Simon and Schuster. By Woodall Publishing Company. Things to do and places to see in every state and season plus nearby campground information.
A058	Woodland Crafts Union County Outdoor Educational Center. Step-by-step instructions showing how to make: 1. Prints of leaves and plants 2. Plaster casts of footprints
A062	Y.M.C.A. Day Camping National Standards and Desirable Practices.
B063	You and Your Lawmaker Published by the Shooting Sports, Inc. A citizenship manual for sportsmen. Sportsmen must take a more active interest in legislation affecting the broad field of outdoor recreation.
P16	Zoo Animals Singer SVE 1. Elephant 2. Chimpanzee 3. Giraffe 4. Hippototamus 5. Lion 6. Rhinoceros 7. Tiger 8. Mountain Goat
F043	Let's Explore a Lawn Exploring the World of Nature Series. Group 1. Singer SVE. Common weeds, desirable grasses, effect of too much fertilizer. Animal life in lawn and what it does. 51 frames. Inter-Jr. High

POLLUTION

Cat. No.	Description
H075	Air Conservation Copyright 1967. American Association for the Advancement of Science Report of the Air Conservation Commission on air conservation for laymen interested in this subject.
S001	Air Pollution J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative set of posters accompanying slides.
D006A	Air Pollution Published by Addison Wesley. P. O'Donnell, Lavaroni Lindberg. Book constitutes excellent supplements and resource materials for both science and social studies programs. For grades 5 & 6.
D029	Air and Water Pollution Copyright 1969. Published by Washington Square Press, Inc. Gerald Leinwand. Each year, water and air pollution takes its toll-causing disease, shortening lives. The cost in human suffering is incalculable; the annual economic cost is several billions of dollars.
F033	America's Urban Crisis Group 1. Singer SVE. A forceful survey of pressing environmental problems. Students examine urban dilemas where industrial and technological achievements and personal irresponsibility have created by-products that menace the quality of urban life. Set of 6 filmstrips, 3 records. Jr-Sr High full color filmstrips 1. The Roots of Our Urban Problem 2. The Air Pollution Menace 3. Water Pollution--A Complex Problem 4. Solid Waste--A New Pollutant 5. The Transportation Crisis 6. The Housing Crisis
H019	Before Nature Dies Jean Dorst. One of the world's most distinguished zoologists treats the entire earth as a single unit, he marks clear what must be done on an international scale if man's suicidal drive to destruction is to be halted.
H087	The Careless Atom Copyright 1968, 1969. Houghton Mifflin Company. Sheldon Novick. Is our headlong commitment to nuclear reactors a threat to the future as well as a clear and present danger? Is the possible saving in our electricity bills worth the risk to life and health? Sheldon Novick believes that the public should know what is happening and is quite capable of understanding the scientific facts if they are properly presented.

POLLUTION

Cat. No.	Description
G07B	Dirty Water Copyright 1970. Urban Systems, Inc. The Water Pollution Game. A game of environmental consciousness. Teaches people of all ages about ecology and water pollution. A player wins by successfully controlling water polluion.
F040	The Ecological Crisis Singer SVE. An excellent new filmstrip series takes a serious look at current environmental problems and their causes. Factual statistics are dramatized and full-color photographs illustrate the situations analyzed. This series creates awareness, stimulating discussions. Set of 6 filmstrips, 3 records, 6 teacher guides. Jr.-Sr. High 1. Population Statistics 2. Population Trends 3. Some Ecological Considerations 4. Evolution and Extinction 5. Pesticides 6. Pollution
D004	Ecology--Life, Struggle, Survival Copyright 1970. Addison-Wesley Publishing Company. L. McCombs, N. Rosa. An introductory study of the science of ecology. Suitable for studies on population, pollution, conservation changing urban life, Eco-political action with relevance for today's concerned students. Grades 7 & 8.
D027	Environmental Conservation Copyright 1959, 1968. Published by John Wiley and Sons, Inc. Raymond F. Dasmann. This book is an attempt to look at our environment and human problems from the viewpoint of conservation. It is an attempt to provide a factual basis on which action to improve the environment can be taken.
F013	Environmental Crisis Student National Education Association. 5 filmstrips, 5 records, guide. 1. Environmental Problem 2. Interrelationships of Pollution: Insecticides, automobiles 3. Interrelationships of Pollution: Sewage, fertilizer 4. Animal Wastes and Ecology 5. Pollution
F021	Environmental Pollution: Our World in Crisis Wards Natural Science Establishment, Inc. Explores the nature of the problems of pollution and some of its consequences. Teacher's guide. 1. Nature of the Crisis 2. Atmospheric Pollution 3. Land Pollution 4. Freshwater Pollution 5. Marine Pollution 6. Pollution Control

POLLUTION

Cat. No.	Description
H038	Freedom Books Copyright 1970. Published by Bowmar. Bill Martin. Social Science books for intermediate and senior high grades. The ecological crisis of our time demands that children engage in provocative studies. Freedom books help children keep faith with the "American Dream" in face of criticisms, doubts, failures, and massive problems. These books must be ordered as a set. 1. Freedom's Apple Tree 2. I Reach Out in the Morning 3. Gentle, Gentle Thursday 4. I am Freedom's Child 5. Spoiled Tomatoes 6. America, I Know You 7. Adam's Balm 8. Poor Old Uncle Sam 9. It's America For Me 10. Once There Were Bluebirds 11. Teacher's Guide
A015	Give Earth a Chance Minnesota Environmental Sciences Foundation, Inc. A series of six booklets on degradation of natural environment. a. Dirty Air b. Trash is Taking Over c. Sounds and Silence d. Pesticides are Perilous e. Tragedy in the Laundromat f. Troublesome Tailpipes
H084	God's Own Junkyard Copyright 1964. Peter Blake. In four brilliant and devastating chapters, Peter Blake sets forth the case against the collusion of politics, business, and public indifference which is depredating the American landscape and in five additional chapters, masterfully documents in pictures the evidence supporting his contention that the townscapes, landscapes, roadscapes, carscapes, and skyscapes of America are being laid waste by venality, vulgarity, and general if not systematic, "uglification."
D044	Man's Impact on the Global Environment This Report of the Study of Critical Environmental Problems presents the results of an interdisciplinary examination of the global climate and ecological effects of man's activities. The focus is on environmental problems which have worldwide significance.
F029	Man's Natural Environment: Crisis Through Abuse Guidance Associates. Illustrates the pollution crisis through specific examples such as Santa Barbara oil leak and Lake Erie. Teacher's guide, filmstrips, and records.

POLLUTION

Cat. No.	Description
B034	Minnesota Pollution Control Regulations for the control of wastes from livestock feedlots, poultry lots and other animal lots.
D006C	Noise Pollution Published by Addison-Wesley. P. O'Donnel, C. Lavaroni, L. Lindberg. Book constitutes excellent supplements and resource materials for both science and social studies programs. For grades 5 & 6.
B039	Nuclear Power and the Environment By United States Atomic Energy Commission. The AEC has prepared this report to discuss for nuclear power plants those matters that appear to be the basis for this concern, and in the process, hopefully to put them into better perspective.
B040	Our Environment Battles Water Pollution Copyright 1969. Dr. Charles E. Renn. Describes the changes that go on when waters are polluted. It will also describe the process that restores their usefulness.
D011	Our Mistreated World Published by the Wall Street Journal. Case histories of man's pillaging of nature.
B042	Our Polluted Planet Copyright 1968. Published by Ambassador College Press. By Ambassador College Research Department. Polluted air, water, and earth. Smog is no longer a joke--it's a killer. Learn what the solution will be.
D021	Our Plundered Planet Fairfield Osborn
G19	Pollution ABT Associates, Inc. Educational game.
F032	Pollution Set of 6 color filmstrips and 3 records. 1. The Polluters 2. Air 3. Water 4. Land 5. Noise 6. The Problem is Now
D049	Pollution Abstracts Volume 2, Number 1, February, 1971. William C. Farmer. Provides the more detailed technical material which is needed by researchers in universities, corporations, and government agencies. Will fit the needs of readers interested in the current state of environmental actions. The interested citizen, student, and industrial or governmental planner. With indexes.

POLLUTION

Cat. No.	Description
D050	Pollution Abstracts Volume 2, Number 2, April, 1971. William C. Farmer. Provides the more detailed technical material which is needed by researchers in universities, corporations, and government agencies. Will fit the needs of readers interested in the current state of environmental actions, the interested citizen, student, and industrial or governmental planner. With indexes.
D042	Population Bomb Copyright 1968, 1969, and 1970. By Dr. Paul R. Ehrlich. Dr. Ehrlich, a qualified scientist, clearly describes the dimensions of the crisis in all its aspects--air, food, water, birth control, death control, our total environment and a realistic evaluation of the remaining options.
H095	Population Resources Environment Copyright 1970. W. H. Freeman & Company. Paul Ehrlich, Anne Ehrlich. This book is the first comprehensive, detailed analysis of the world-wide crisis of overpopulation and the resulting demands on food, resources, and the environment. The Ehrlichs demonstrate the problems of modern society, such as environmental deterioration, hunger, resource depletion, and war are closely interconnected and that together they constitute a challenge without precedent in human history.
D022	Quiet Crisis Copyright 1963. Published by Avon. Steward Udall. In this book, the former Secretary of the Interior tells the tremendously important and often deeply moving story of those who have fought tirelessly against the appalling industrial fouling of air, water, land, the wanton destruction of beauty, and the ever-increasing encroachment on open space. The author suggests ways to combat and overcome the destructive tendencies still operative in our society.
B049	Radioactive Wastes United States Atomic Energy Commission. By Charles H. Fox. For Americans to understand the vital force they are to discharge thoughtfully as their responsibilities as citizens and if they are to realize fully the myriad benefits that nuclear energy offers them.
D043	Silent Spring Copyright 1962. Rachel Carson. Silent Spring is a devastating attack on human carelessness, greed, and irresponsibility. It should be read by every American who does not want it to be the epitaph of a world not very far beyond us in time.

POLLUTION

Cat. No.	Description
G07A	Smog Urban Systems, Inc. Teaches people of all ages about air pollution. The purpose of the game is to acquaint the players with some of the complexities with which a local administrator must deal in controlling the quality of the air over his town. While the most important sources of air pollution are automobiles and the smoke emitted by industries which burn sulfur-containing fuels, the players soon discover that it is neither wise nor possible to outlaw all gasoline-engine automobiles or restrict industry.
H066	This Little Planet Copyright 1970. Published by Charles Scribner & Sons. Edited by Michael Hamilton. In this book three prominent scientists and three distinguished theologians explore the unrecognized possibilities for a contemporary ethic world's problems of pollution and scarcity.
B055	The Trouble with Trash Caterpillar. Gives possible solutions as to what to do with the problem of excess refuse that is a growing menace to our environment.
S016	Visual Pollution J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative poster cards.
S018	Water Pollution J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative poster cards.
D006B	Water Pollution Published by Addison-Wesley Publishing Company. P. O'Donnell, C. Lavaroni, L. Lindberg. Book constitutes excellent supplements and resource materials for both science and social studies programs. For grades 5 & 6.
F060	What's in the Air? Urban Ecology Series. Ealing Corporation. Teacher's guide and suggested lesson plan. Super 8 cartridge color film-loop
B064	Workbooks Addressed to Social Issues Engendered by the Environmental Crisis. Institute for Public Information. A series of workbooks addressed to social issues engendered by the environmental crisis. These workbooks will provide basic information, list a few additional sources, and stress the role of scientific and technical information in evaluating and solving environmental problems. 1. Air Pollution 2. Water Pollution 3. Environmental Effects of Weapons Technology 4. Hunger 5. Nuclear Explosions in Peacetime 6. Pesticides 7. Environmental Costs of Electric Power 8. Environmental Education, 1970

POLLUTION

Cat. No.	Description
F035	Young Scientists Investigate Pollution Singer, SVE. A unique approach to the study of atmospheric and water pollution. Students tell of their science-fair projects in which they analyzed the serious consequences of air and water pollution. Set of 4 filmstrips, 2 records, 4 guides. Inter-Jr.-Sr. 1. Smog and Plant Growth 2. Air Pollution and Lung Tissue 3. Measuring Water Pollution 4. Fresh Water from the Sea

URBAN ENVIRONMENT

Cat. No.	Description
H017	America's Changing Environment Copyright 1967, 1970. Edited by Roger Revelle and Hans H. Landsberg. In this book twenty economists, political scientists, city planners, and conservationists discuss the causes of these blighting conditions, how serious they are, what society thinks about them, and how they can be dealt with in the American system of values and through American political processes.
F033	America's Urban Crisis Group 1. Singer SVE. A forceful survey of pressing environmental problems. Students examine urban dilemas where industrial and technological achievements and personal irresponsibility have created by-products that menace the quality of urban life. Jr.-Sr. High. Set of 6 filmstrips, 3 records. 1. The Roots of Our Urban Problem 2. The Air Pollution Menace 3. Water Pollution--A Complex Problem 4. Solid Waste--A New Pollutant
A072	Animal Adaptation to Environment Milwaukee Public Schools. A visit to the outdoor education mobile laboratory. A teacher's guide. A large housetrailer which will be brought to a school upon request. It is intended to serve as a teacher-in-service training center as well as a resource for students.
H091	The Children of Frankenstein Copyright 1970 by Indiana University Press. By Herbert J. Muller. A primer on modern technology and human values. "Just what has modern technology done to, as well as for people?" is the central question of this original and provocative book.
F025	Cities, U.S.A. Guidance Associates. Describes the effects of urban pollution, noise, and economic handicaps of city government. Explores experimental approaches to solving problems. Teacher's guide and filmstrips with records.
D037	The Citizen's Guide to Planning Copyright 1961, 1962, 1963, 1964, 1967, and 1969. By Herbert Smith. The purpose of this book is to set forth the meaning of planning in terms understandable by all interested laymen.
D039	The Citizen's Guide to Urban Renewal Copyright 1962, 1963, 1965, 1968, and 1970. By Carl G. Lindbloom. The message of this modest book is to gain understanding for the professional working in the field and to help the citizen become aware of what is required to make a successful urban renewal program, and therefore how he might help in that effort.

URBAN ENVIRONMENT

Cat. No.	Description
D038	The Citizen's Guide to Zoning Copyright 1965, 1970. By Herbert Smith. This volume is prepared as a companion piece to Citizen's Guide to Planning and The Citizen's Guide to Urban Renewal. It is not designed as a technically exhaustive analysis but is, as the title implies, offered for the use of the average citizen who would like to know something about this important function of local government and about his responsibility with respect to it.
G21	The City American Science and Engineering, Inc. The City is about cityness. Its purposes are: To help young children form an idea of what a city is, what happens in it, how it changes; to make them aware that the form of the city and the shape of life in it are related. Kit includes: wooden buildings, magnetic board, ditto masters, teacher's guide, picture pool-36 pictures, 4 magic windows, records, films, and books.
F062	The City as a Human Habitat Urban Ecology Series. Teacher's guide and suggested lesson plan. Super 8 cartridge color film-loop.
S022	The City at Night Architectural Color Slides. Shows cities from all over the world and gives a striking picture of the beauty of our new electrified urban environment. (Coordinated with the book, The Language of Cities, by Fran P. Hosken, The Macmillan Company, September 1968.) Slides are in carousel drum with coordinated lecture notes.
R19	City Sounds American Science and Engineering, Inc. 33 1/3 rpm. For use with the kit The City, number G21 in the section on Urban Environment in this catalog.
S024	City Spaces for People Around the World Published by Franziska Porges. Slides illustrate a neglected need of our cities today: a place for people to meet. "City Spaces" shows the use of urban space around the world for many different purposes. A text is supplied to initiate a series of discussions which can be designed around this presentation. The slides also can be used without the text as illustration for the use of urban space.
F006	Conservation in the City A study of an excavation site shows that conservation means changing land where necessary to provide homes for people. Experiments with trees and water reveal the need for conserving open spaces in the cities. Color filmstrip series. Encyclopedia Britannica Educational Corporation. Teacher's guide. 1. Part I Underfoot 2. Part II Eyelevel 3. Part III Overhead

URBAN ENVIRONMENT

Cat. No.	Description
F057	Cracks in the Pavement Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things first-hand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
J06	Design and Environment R. C. Publications, Inc. An interprofessional magazine for architects, engineers, city planners, landscape architects, and designers. Published quarterly.
D054	Designing Education for Tomorrow's Cities Copyright 1970. Holt, Rinehart, and Winston, Inc. By Mario Fantini, Milton A. Young. The authors vigorously examine current educational systems and find them outmoded and inadequately structured. Consiering major strategies for reforming these anachronistic systems, the authors use as a case study the development of the Fort Lincoln New Town school system which has been incorporated into this model city located outside Washington D.C.
B017	Discovering Your Environment Myron Chase. Purpose: To create involvement, understanding and willingness to work and pay for environmental improvements.
A083	Earth Corps Environmental Study Kit Scholastic Book Services. Kit I. LOOK AROUND YOU. Helps the child to develop critical awareness of his surroundings. The child learns to distinguish between what is pleasant and what is unpleasant and to see why some things in his environment are unpleasant. Kit includes: student activity books, transparencies, poster, photos, 7" LP record, individual song sheets, and teaching manual. For grades 1-3.
A082	Earth Corps Environmental Study Kit Scholastic Book Services. Kit II. FIRST FOLLOW NATURE. Explores in greater depth the reasons some environments are pleasant and others are unpleasant. The child looks at his home, the street on which he lives on, his neighborhood, and his city. Kit includes: student activity books, transparencies, poster, photos, 7" LP record, individual song sheets, and a teaching manual. Grades 4-6.
H001	Ecologic--Economic Analysis for Regional Development Copyright 1970. Walter Isard. Collier-Macmillan. A study of the relationship between the principle economic and ecologic factors affecting life in an urban environment.

URBAN ENVIRONMENT

Cat. No.	Description
F040	The Ecological Crisis Singer SVE. An excellent new filmstrip series takes a serious look at current environmental problems and their causes. Factual statistics are dramatized and full-color photographs illustrate the situations analyzed. This series creates awareness, stimulating discussions. Set of 6 filmstrips, 3 records, 6 guides. Jr.-Sr. High 1. Population Statistics 2. Population Trends 3. Some Ecological Considerations 4. Evolution and Extinction 5. Pesticides 6. Pollution
S003B	Ecology of the City J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative set of poster cards.
F011	Ecology and Man Series III. McGraw-Hill. Filmstrips with teacher's guide. 1. The Management of Soil 2. The Management of Water 3. Competitive Land Use 4. Human Ecology 5. The Ecology of Farming 6. Man-Managed Ecosystems
D031	Environment and Change the Next Fifty Years Copyright 1968 by Indiana University Press. Commissioned and edited by William R. Ewald, Jr. Offers realistic goals toward which urban planning may be directed if human society is to fulfill its need and capability for advancement.
F028	Environment: Changing Man's Values Guidance Associates. Analyzes the need for fundamental changes in our attitudes and relationships to the environment. Teacher's guide with filmstrips and records.
A064	Environmental Education American Institute of Architects. A resource materials book of man-made environment.
H101	Environmental Geology: Conservation, Land Use Planning, and Resource Management. Harper and Row, Publishers. By Peter T. Flawn. Its general subject--long one of prime importance to geologists, ecologists, and conservationists--recently has become a major concern of the man in the street, a viable issue cherished by politicians and would-be office holders, and a growing preoccupation of architects, sociologists, reformers, urban designers, and national planners.
A071	Environmental Inquiries Milwaukee Public Schools. A visit to the outdoor education mobile laboratory. A teacher's guide. A large house-trailer which will be brought to a school upon request. It is intended to serve as a teacher-in-service training center as well as a resource for students.

URBAN ENVIRONMENT

Cat. No. Description

P18 A Family at Work and Play

Urban Life Series. Singer SVE. Large, full-color photographs on sturdy, extra strenth stock, with a wealth of factual material on the reverse side, offer teachers a valuable enrichment source for bringing to students information on various facets of urban life. 8 prints. Primary-Inter.

D046 The Federal Bulldozer

Copyright 1964. McGraw-Hill Company. By Martin Anderson. Professor Anderson presents the facts of the urban renewal program. He concludes his discussion with an analysis of the program's aims, its authority, its morality, and its rationalization.

H038 Freedom Books

Copyright 1970. Published by Bowmar. By Bill Martin. Social Science books for intermediates and senior high grades. The ecological crisis of our time demands that children engage in provocative studies. Freedom books help children deep faith with the "American Dream" in face of ctiticisms, doubts, failures, and massive problems. These books must be ordered as a set.

1. Freedom's Apple Tree
2. I Reach Out in the Morning
3. Gentle, Gentle Thursday
4. I am Freedom's Child
5. Spoiled Tomatoes
6. America, I Know You
7. Adam's Balm
8. Poor Old Uncle Sam
9. It's America for me
10. Once There were Bluebirds
11. The Teacher's guide

H085 Freeways

Copyright 1966. By Lawrence Halprin. In the long run, the design of a great freeway is an intuitive act of the most demanding and imprecise kind. Even the terms for freeways are not fixed or agreed upon. Freeway, expressway, highway, throughway, skyway, speedway, parkway, tollway, all are words now in use to describe the idea of a high-speed, high-capacity road with no traffic crossings at the same level.

F059 Garbage Dumps

Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things firsthand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.

A015 Give Earth a Chance

A series of six booklets on degradation of natural environment. By Minnesota Environmental Sciences Foundation, Inc. Grades 5-8.

a. Dirty Air
b. Trash is Taking Over
c. Sounds and Silence
d. Pesticides are Perilous
e. Tragedy in the Laundromat
f. Troublesome Tailpipes

URBAN ENVIRONMENT

Cat. No.	Description
H084	God's Own Junkyard Copyright 1964. By Peter Blake. In four brilliant and devastating chapters, Peter Blake sets forth the case against the collusion of politics, business, and public indifference which is depredating the American landscape and in five additonal chapters masterfully documents in picutres the evidence supporting his contention that the townscapes, landscapes, roadscapes, carscapes, and skyscapes of America are being laid waste by venality, vulgarity, and general if not systematic, "uglification."
A014	Good Teaching Aids Audubon Aids. 1. How to lead a field trip 2. Natural resources in the city 3. Mysteries of bird migration 4. Rock stories/how to read them 5. Terrarium, miniature garden under glass 6. Some adventures with wild plants indoors/outdoors 7. Plant propagation in the classroom 8. Things to do in nature 9. How to build a nature trail 10. Trees are history books 11. Forecasting the weather 12. Schoolyard laboratories 13. Nature quiz electric nature games
F063	Grass Backyard Ecology Series. Ealing Corporation. This series is a guide to a child'd backyard. What is to be found in a rotting in a stump, beneath a rock, or under the leaves of the forest floor? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
R03	The Great Debate Series Educational Sensory Programming, Inc. Overpopulation--Government Control of Family Size? Pollution-Technology vs. Ecology. Tape recording.
P22	How People Travel in the City Urban Life Series. Singer SVE. Large, full-color photographs on sturdy, extra strength stock, with a wealth of factual material on on reverse side, offer teachers a valuable enrichment source for bringing to students information on various facets of urban life. 8 prints. Primary-Inter.
H043	Human Ecology Copyright 1966. By Jack B. Bresler. This book represents a historical approach to environmental factors that have affected man. It provides an orientation of how man had adapted, is adapting, and will adapt to these factors.
S006	Human Resources J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative set of poster cards.

URBAN ENVIRONMENT

Cat. No.	Description
A068	Integrating Man and Land. Environmental Science Center. Manual in community planning for group participation.
F015	Interdependence of Living Things McGraw-Hill. Filmstrips with teacher's guide. 1. Introduction to Ecology 2. Animal and Plant Communities: Forest 3. Animal and Plant Communities: Field 4. The Web of Life 5. Animal and Plant Communities: Pond 6. Animal and Plant Communities: City
B008B	It's Your World Published by the United States Department of the Interior Conservation. The landscapes and cityscapes that comprise the face of our continent present a partial statement about the state of our civilization in much the same manner as the cut of a man's clothes tells something about the man himself.
P21	Keeping the City Clean and Beautiful Urban Life Series. Singer SVE. Large, full-color photographs on sturdy, extra strength stock, with a wealth of factual material on the reverse side, offer teachers a valuable enrichment source for bringing to students information on various facets of urban life. 8 prints. Primary-Inter.
G22	Kids, Cameras, and Communities Selective Educational Equipment, Inc. Basic camera kit for a group of 15 students. Includes: instructions, cameras, film, and processing equipment. Students are involved in a total productive effort in environmental awareness.
A027F	Land Use--Concern, Challenge, Commitment Published by Conservation and Environmental Science Center. Edited by Norma T. Vivian and Eugene Vivian. This environmental education instruction plan (EEIP) has been prepared in answer to the demand for usable curriculum materials for developing environmental awareness in today's students. Jr.-Sr. High.
H086	The Landscape We See Copyright 1969. McGraw-Hill Company. By Garrett Eckbo. A non-technical book considers the landscape we live in as one comprehensive system of natural and man-made elements.
H096	The Language of Cities Copyright 1968. MacMillan Company. Fran P. Hosken. This book is coordinated with architectural color slides The City at Night, catalog number S022

URBAN ENVIRONMENT

Cat. No.	Description
F065	Leaf Litter Backyard Ecology Series. Ealing Corporation. This series is a guide to a child's backyard. What is to be found in a rotting stump, beneath a rock or under the leaves of the forest floor? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
F047	Let's Explore the City Part 1. Exploring the World of Nature Series. Group 2 Singer SVE 50 frames. Inter-Jr. High
F048	Let's Explore the City Part 2. Exploring the World of Nature Series. Group 2 Singer SVE An ecological approach to nature study. How plants help man and create nuisances, dependence of animals on plants, getting rid of pests. 49 frames. Inter-Jr. High
F066	Log Backyard Ecology Series. Ealing Corporation. This series is a guide to a child's backyard. What is to be found in a rotting stump, beneath a rock, or under the leaves of the forest floor? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
A025	Man's Habitat--The City Environmental Science Center, Minnesota. Enables children and young adults alike to actively investigate, discover, define, and change the extraordinarily human habitat--the city. Grades 4-9
F029	Man's Natural Environment: Crisis Through Abuse Guidance Associates. Illustrates the pollution crisis through specific examples such as Santa Barbara oil leak and Lake Erie. Teacher's guide with filmstrips and records.
A074	Minute Plants and Animals Milwaukee Public Schools. The Outdoor Education Mobile Laboratory. A large trailer which will be brought to a school upon request. It is intended to serve as a teacher-in-service training center as well as a resource for students. Grade 6
P23	Moving Goods for People in the City Urban Life Series. Singer SVE. Large, full-color photographs on sturdy, extra strength stock, with a wealth of factual material on on the reverse side, offer teachers a valuable enrichment source for bringing to students information on various facets of urban life. 8 prints. Primary-Inter.

URBAN ENVIRONMENT

Cat. No.	Description
P20	Neighborhood Friends and Helpers Urban Life Series. Singer SVE. Large, full-color photographs on sturdy, extra strength stock, with a wealth of factual material on the reverse side, offer teachers a valuable enrichment source for bringing to students information on various facets of urban life. 8 prints. Primary-Inter.
A079	Our Man-Made Environment Copyright 1970. Group for Environmental Education, Inc. An introduction to the study of the man-made environment...of how our lives are affected by our surroundings, of what we want from them, and of how we can change them to meet our needs. The first of a series developed for use in the intermediate years.
F024	The People Problem Guidance Associates. Reasons for population explosion, food shortage, housing shortage and alternative for dealing with the crisis.
A042	People and Their Environment Copyright 1968, 1969. Published by the J. G. Ferguson Company. By Cyril Busbee. Grades 1-3.
A043	People and Their Environment Copyright 1968, 1969. Published by the J. G. Ferguson Company. By Cyril Busbee. Grades 4-6.
A037	People and Their Environment Home Economics. Copyright 1968, 1969. Published by the J. G. Ferguson Company. By Cyril Busbee. Grades 9-12.
A040	People and Their Environment Social Studies. Copyright 1968, 1969. Published by the J. G. Ferguson Company. By Cyril Busbee. Grades 7-9.
A041	People and Their Environment Social Studies. Copyright 1968, 1969. Published by the J. G. Ferguson Company. By Cyril Busbee. World History. Grades 10-12.
A044	Photography for Kids Environmental Science Center. This guide includes complete instruction for using photography with children. It also includes suggested problems to pose to the children so that they will become aware of stopping time with a camera, seeing interesting patterns, and using light.
H054	Play and Interplay Copyright 1970. By Paul Freidberg. A manifesto for new design in urban recreational environment. Presentation of new concepts in urban playspace.

URBAN ENVIRONMENT

Cat. No.	Description
H092	The Politics of Ecology Copyright 1970. E. P. Dutton and Company, Inc. By James Ridgeway. This book is a nationwide handbook for survival. The proposals for change suggested by the author are not meant as adjustment or reforms for controlling pollution. They represent different ways of attacking the source of pollution, thereby opening up possibilities for change.
D042	The Population Bomb Copyright 1968, 1969, 1970. By Dr. Paul R. Ehrlich. Dr. Ehrlich, a qualified scientists, clearly describes the dimensions of the crisis in all its aspects--air, food, water, birth control, death control, our total environment--and provides a realistic evaluation of the remaining options.
R16B	Preserving and Improving the Urban Environment Carl Feiss. One-half hour program. Distributed by Indiana University. Tape recording.
F064	Rock Backyard Ecology Series. Ealing Corporation. This series is a guide to a child's backyard. What is to be found in a rotting stump, beneath a rock, or under the leaves of the forest floor? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
P19	School Friends and Helpers Urban Life Series. Singer SVE. Large, full-color photographs on sturdy, extra strength stock, with a wealth of factual material on the reverse side, offer teachers a valuable enrichment source for bringing to students information on various facets of urban life. 8 prints. Primary-Inter.
G18	Simpolis Manual Copyright 1970. By ABT Associates, Inc. An educational game demonstrating urban problem areas for adults and teenagers. It is designed to familiarize students with problem areas such as transportation, pollution, and housing.
H066	This Little Planet. Copyright 1970. Published by Charles Scribner and Sons. Edited by Michael Hamilton. In this book three prominent scientists and three distinguished theologians explore the unrecognized possibilities for a contemporary ethic world's problems of pollution and scarcity.
F027	Transportation: Where Do We Go From Here? Guidance Associates. Explains the need to restructive transportation system as factors in the human environment. Teacher's guide with filmstrips and records.

URBAN ENVIRONMENT

Cat. No.	Description
F022	Urban Action: Planning for Change Published by Ginn and Company. Created by C. Richard Hatch Associates, Inc. This course was intended to achieve five objectives: 1. To make students aware that the urban environment is largely the work of man. The result of human decisions that can be located and understood and that it can be changed by individual and group action. 2. To enable the student to see himself as an actor, a participant in community processes, rather than as a passive recipient in education and life. 3. To open new areas of choice by making students aware of both immediately practical and utopian urban solutions. 4. To increase the relevance of school to life in the community, in hopes of affecting the student's willingness to learn reading and arithmetic skills, and 5. To increase the teacher's knowledge of the student's community and life style. Teacher's guide and 31 students community planning handbooks. 9 filmstrips and 6 records.
H094	Urban Landscape Design Copyright 1964. McGraw-Hill Company. By Garrett Eckbo. The author describes the physical landscape in which we live as one continuous experience in time and space throughout our lives. The book considers general design processes as they are applied today to specific projects. It defines landscape quality, the processes which produce it, and those which can be used to improve it.
C14	Urban Living Teaching Tools Company. Poster cards. Today, the problems of both urban and nonurban settings are in some instances going unsolved because of ignorance and the misconception that we can only help the city or the suburb. Some city children have never been outside a concrete setting; whereas others have never left the farm, small town, or suburb. The stress of these poster cards is to prepare the child to cope with a multitude of settings. Judgement of "good" or "bad" should be avoided. 20 photographs.
H063	The Urban Scene: Human Ecology and Demography Copyright 1965. By L. F. Schnore. Collier-Macmillan. Collection of 20 papers dealing with ecology and metropolitan growth and decentralization.
A056	Using the Natural Environment of the City as a Curriculum Development Operation: New York. Bureau of Curriculum Development; Board of Education; City of New York. Resource guide for urban and outdoor education. Grades K-8.
A059	Vacant Lot Studies Environmental Science Center, Minnesota. This lesson united the disciplines of social studies, ecology, and mathematics around the study of a vacant lot. Grades 5-9.

URBAN ENVIRONMENT

Cat. No.	Description
F058	Vacant Lots Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things firsthand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
S021	The Visual City Macmillan Company. A one-school-hour presentation, coordinated with the book, The Language of Cities, by Fran P. Hosken, published by the Macmillan Company, September 1968. Together, the The Visual City and The Language of Cities provide a basic background for the study of the urban scene. Four groups of 80 slides each in carousel drums, with coordinated lecture notes. Parts 1-4.
F056	Walls as Habitats Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things firsthand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
F061	Water in the City Urban Ecology Series. Ealing Corporation. Teacher's guide and suggested lesson plan. Super 8 cartridge color film-loop.
D025	We Can Save Our Cities Copyright 1967. Published by Scholastic Book Services. By Civic Education Service Staff. Edited by Caly Coss. How cities began and all their problems, such as; transportation, sanitation, education, crime rate, economy, etc. How you can help.
B064	Workbooks Addressed to Social Issues Engengered by the Environmental Crisis. Institute for Public Information. A series of workbooks addressed to social issues engendered by the environmental crisis. These workbooks will provide basic information, list a few additional sources and stress the role of scientific and technical information in evaluating and solving environmental problems. 1. Air Pollution 2. Water Pollution
A027D	The World Around Them Published by Conservation and Environmental Studies Center. Edited by Eugene Vivian and Norma T. Vivian. The purpose of this series of environmental education components is to provide urban teachers with materials which can be used to create an awareness and concern for urban environmental problems on the part of the students.

URBAN ENVIRONMENT

Cat. No.	Description
H103	The World of Tomorrow McGraw-Hill Book Company. Kenneth Goldstein. Using the latest developments of today's science as a starting point, Mr. Goldstein describes the possible future uses of laser beams for communication, of computers that operate entire factories, automatic highways that guide automobiles. The reader will find this book a fascinating, informative guide to the future--a future more astounding than science fiction.
A073	Your Urban Environment Milwaukee Public Schools. Outdoor Education Mobile Laboratory. Large house-trailer which will be brought to a school upon request. Intended to serve as a teacher-in-service training center as well as a resource for students. Teacher's guide. Grade 5.
D005	Environments of Man Copyright 1968. Published by Addison-Wesley Publishing Company. By Jack B. Bresler.
S016	Visual Pollution J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative poster cards.

WILDLIFE ENVIRONMENTS

Cat. No.	Description
S002	American Birds J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.
P01	Animal Babies McGraw-Hill. Teacher's guide 1. Scorpion Mother and Babies 2. Plant Bugs of Different Ages 3. Stink Bug Mother and Babies 4. Ants of all Ages 5. Frog with Tadpoles 6. Lizard Mother and Babies 7. Mother Hen and Chicks 8. Mother Bird and Babies 9. Kangaroo Mother and Baby 10. Elk and Calf 11. Lion Cubs 12. Monkey Mother and Baby
P02	Animal Defenses McGraw-Hill. Teacher's guide 1. Flight 2. Weapons 3. Biting 4. Natural Armor 5. Case Making 6. Sharp Spines 7. Poisonous Spines 8. Clumping 9. Puffing Up 10. Poisonous Slime 11. Bluff 12. Defending the Home
P03	Animal Disquises McGraw-Hill. Teacher's guide 1. Camouflage on the Ground 2. Camouflage on Tree Bark 3. Color Matching 4. Flower Imitation 5. Imitation of a Lichen 6. Imitation of a Twig 7. Patterns that Camouflage 8. False Eyes 9. Turning Aside an Attack 10. False Faces 11. Warning Colors 12. Mimicry
F002	Animals of the Forest Series McGraw-Hill. Filmstrips with identification. 1. The Black Bear 2. The Beaver 3. Squirrels 4. The Racoon 5. Animal Tracks
C01	Animals of North America Copyright 1967. National Wildlife Federation. Forty-eight color illustrations of animals of North America with a brief description of each.

WILDLIFE ENVIRONMENT

Cat. No.	Description
P24	Animals Without Backbones Singer SVE 1. Octopus 2. Ground Beetle 3. Crayfish 4. Millipede 5. Scorpion 6. Snail 7. Starfish 8. Orange Garden Spider
B002	Bandtail Pigeons By the Arizona Big Game Bulletin. Gives a brief summary on the habits of these pigeons. Tells most popular places to hunt, how to prepare for eating.
B003	Bear By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the bear. Tells size, and most popular hunting grounds, how to prepare for eating.
B004	Bighorn Sheep By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the bighorn sheep. Tells size, and most popular ways to prepare the sheep for eating.
G02	Bild-a-Bird Barton-Cotton, Inc. Grades 1-3.
C02	Birds of North America Copyright 1968. National Wildlife Federation. Forty-eight color illustrations of birds of North America; brief description of each bird.
R01	The Birds World of Song Ansley, Hudson, and Sandra. Folkways Record.
H020	The Bobcat of North America Copyright 1958. Published by the Stackpole Company. Stanley Young. A complete study of the bobcat from every angle, spiced with annecdotes from the author's own personal experience.
B005	Boom and Bust Printed October, 1967. Jerry Dan and Steve Gallizioli. The story of the Chircahua Whitetail Deer.
P04	Butterfly and Frog McGraw-Hill. 1. The Eggs are Laid 2. The Eggs Hatch 3. The Caterpillars Grow Larger 4. Caterpillar Prepares to Pupate 5. The Pupa State 6. Butterfly Comes Out 7. The Adult Butterfly 8. Tadpoles Grow Inside Eggs 9. Tadpole Grows Hind Leggs 10. Tadpole Grows Front Leggs 11. Almost a Frog 12. Young Frogs

WILDLIFE ENVIRONMENTS

Cat. No.	Description
G10	Colorwheel National Wildlife Federation Songbird Identification Wheel.
P33	Common Birds Singer SVE 1. Great Horned Owl 2. Blue Jay 3. Cardinal 4. Redwing Blackbird 5. Mourning Dove 6. Brown Thrasher 7. Robin 8. Hairy Woodpecker
P27	Common Insects Singer SVE 1. Monarch Butterfly 2. Red-Legged Grasshopper 3. Cicada 4. Dragonfly 5. Ant 6. Housefly 7. Honeybee 8. Mosquito
G03	Concentration National Wildlife Federation. Wildlife cards. Grades 1-3.
H031	Crusade for Wildlife Copyright 1951. Published by the Stackpole Company. James Trefethen. A story of how the buaffalo and other once-threatened species were saved and brought back to abundance.
H033	The Deer of North America Copyright 1956. Published by the Stackpole Company and the Wildlife Management Institute. Present history, legend, habits, characteristics, range, anatomy, conservation, hunting tips for; white tail, black tail, and mule deer.
B013	The Desert Bighorn Sheep in Arizona Copyright 1956, 1960, 1965. Prepared and published under the Federal Aid in Wildlife Restoration Act, Project W-53-R. John P. Russo. Tells all habits, eating, breeding, normal size of herds, and all other information needed about the Bighorn Sheep in Arizona.
B015	Desert Wildlife Copyright 1959. Prepared and published under the provisions of the Federal Aid in Wildlife Restoration Act, W-62-R. J. T. Wright. Tells the type of climate, amount of water and vegetation that our wildlife needs. Tells about wildlife habitat in Arizona.
B018	Doves By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the dove. Tells size of, most popular ways to prepare for eating. Most popular hunting grounds also.
H034	The Ducks, Geese, and Swans of North America Copyright 1942, 1953, 1967. Published by the Stackpole Company. F. H. Kortright. Full description and life story for each kind of

Cat. No.	Description
	duck, goose, and swan of North America.
B019	Elk (Wapiti) By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the antelope. Tells the size of, and the most popular ways to prepare for eating.
D008	Extinct and Vanishing Animals Vinzenz Ziswiler. Fred and Pille Bunnell. Provides constructive examples and approaches to the problems involved and to allow man to coexist peacefully and profitable with other species of the globe.
P05	Familiar Birds Singer SVE. Familiar birds, their young, and nest. 1. Ruby Throated Hummingbird 2. Bobwhite Quail 3. Eastern Kingbird 4. Mallard Duck 5. American Goldfinch 6. Scarlet Tanager 7. Red-Shaped Flicker
P06	Familiar Fresh Water Fish Singer SVE. Teacher's guide. 1. Yellow Perch 2. Northern Pike 3. Brown Bullhead 4. Largemouth Bass 5. Brook Trout 6. Carp 7. Common Shiner 8. Panfish--Blue Gill, Rockbass, Black Crappie, Pumpkinseed
P31	Farm and Ranch Animals Singer SVE. 1. Dairy Cows 2. Hen and Chicks 3. Horse and Foal 4. Turkey 5. Geese 6. Sheep and Lambs 7. Hog and Shoats 8. Beef Cattle
H002	A Field Guide to Animal Tracks Copyright 1954. Published by Houghton Mifflin Company. Olaus Murie. Over 1,000 illustrations show track patterns of North American mammals and representative birds, insects, and reptiles.
H003	A Field Guide to the Birds Eastern Land and Water Birds Copyright 1947. Published by Houghton Mifflin Company. Roger Tory Peterson. Over 1,000 illustrations and descriptions. Emphasized the characteristics of birds when seen at a distance.
H004	A Field Guide to the Butterflies Copyright 1951. Published by the Houghton Mifflin Company. Alexander B. Klots. All species of butterflies of North America, east of the 100th meridian, identified and illustrated.
H006	A Field Guide to the Mammals Copyright 1964. Published by Houghton Mifflin Company.

WILDLIFE ENVIRONMENTS

Cat. No.	Description
	William H. Burt and Richard P. Groossenheider. Illustration and identification for North American mammals.
H007	A Field Guide to Reptiles and Amphibians Copyright 1958. Published by Houghton Mifflin Company. Roger Conant. An up-to-date guide to reptiles and amphibians of eastern North America.
R02	A Field Guide to Western Bird Songs Houghton Mifflin Company. Set of three records.
H014	A Field Guide to Western Birds Copyright 1959. Published by Houghton Mifflin Company. Roger Tory Peterson. Descriptions and illustrations of more than 700 species.
H015	A Field Guide to Western Reptiles and Amphibians Published by Houghton Mifflin Company. Robert C. Stebbins. An illustrated guide directed to field identification in western North America.
S004	Fish Resources J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative set of poster cards.
B075	Furbearers Non-Game Animals Prepared by the Arizona Game and Fish Department.
B026	Guide to Improvement of Arizona Rangeland Issued by the Cooperative Extension Service and the Agriculture Experiment Station of the University of Arizona. A guide telling how the rangeland should be improved.
B027	Habitat Improvement National Wildlife Education Federation. Copyright 1959. Gives key to game abundance.
S010	Insects J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.
P07	Insects of Garden and Cropland Singer SVE. Teacher's guide 1. Ladybird Beetle 2. Cotton Boll Weevil 3. Spotted Cucumber Beetle 4. Aphid 5. Asparagus Beetle 6. Corn Earworm 7. Colorado Potato Beetle 8. Squash Vine Borer

WILDLIFE ENVIRONMENTS

Cat. No. Description

P08 Insects of Home and Neighborhood

Singer SVE. Teacher's guide

1. Termite
2. Black Vine Weevil
3. Cockroach
4. Cynthia Moth
5. Mealworm, Darkling Beetle
6. Japanese Beetle
7. Fruit Fly
8. Elm Borer

B028 Javelina

By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the javelina. Tells size of, and most popular ways to prepare the javelina for eating.

B029 The Javelina in Arizona

Theodore Knipe. Prepared and published under the provisions of the Federal Aid in Wildlife Restoration Act, Project W-53-R. Copyright 1956, 1960, 1964. Tells the eating and breeding habits, the normal size of herds, and all information needed about the javelina of Arizona.

G05 Jigsaw Puzzles

National Wildlife Federation

1. Cardinal
2. Canada Goose
3. Red-Bellied Woodpecker
4. Grizzly Bear

P09 Kinds of Animals

McGraw-Hill. Teacher's guide

1. Sea Anemones
2. Land Snail
3. Spider
4. Centipede
5. Insect
6. Starfish
7. Fish
8. Frog
9. Snake
10. Bird
11. Elephant
12. Slow Loris

H044 Kinship With All Life

Copyright 1954. Published by Harper and Brothers. Allan Boone. Experiences showing how animals communicate with each other and with people who understand them.

P11 Large Animals of North America

Set 1. Teacher's guide. Singer SVE

1. Bison
2. American Pronghorn
3. Wapiti
4. Amrican Bighorn Sheep
5. Mule Deer
6. Mountain Lion
7. Grizzly Bear
8. American Black Bear

P12 Large Animals of North America

Set 2. Teacher's guide. Singer SVE

1. Brown Bear
2. Polar Bear
3. Doll Sheep
4. Mountain Goat
5. Caribou
6. Black-tailed Deer
7. Moose
8. Musk Ox

WILDLIFE ENVIRONMENTS

Cat. No.	Description
P13	Large Sea Animals Singer SVE. Teacher's guide 1. Sea Lion 2. Ribbon Seal 3. Walrus 4. Sea Elephant 5. Porpoise 6. White Whale 7. Manatee 8. Green Sea Turtle
HO46	The Life of the Desert Copyright 1966. Published in cooperation with the World Book Encyclopedia. Ann and Myron Sutton. This volume explains the vital interrelationships that exist between living things and the physical environment of vast desert regions. Over 1,000 color illustrations.
G08	Lotto National Wildlife Federation. Wildlife Educational. Grades 2-4.
SO11A	Mammals J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.
BO32	Mearn's Quail By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the quail. Tells the size of, and most popular ways to prepare for eating.
BO33	Migratory Waterfowl in Arizona Copyright 1959. Prepared and published under the provisions of the Federal Aid in Wildlife Restoration Act, W-70-R. Wesley B. Fleming. Tells all habits and other information concerning migratory waterfowl in Arizona.
BO35	Mountain Lion By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the mountain lion. Tells size of, and most popular hunting grounds.
BO36	The Mule Deer in Arizona Chaparral Copyright 1958, 1959, 1965. Prepared and published under the provisions of the Federal Aid in Wildlife Restoration Act, Project W-71-R. By Wendell G. Swank. Tells the eating and breeding habits, the normal size of herds and all other information needed about the Mule Deer in Arizona.
BO37	Now That You've Got it, What're You Gonna' Do with it? Published by the Arizona Game and Fish Department. Bill Sizer. Tells how to take care of game and other wildlife after you have seized it, in order to preserve it for eating.
G11	Old Maid National Wildlife Federation. Wildlife cards. Grades 1-3.

WILDLIFE ENVIRONMENTS

Cat. No.	Description
H053	Pheasants in North America Published by the Stackpole Company. Durwood L. Allan. Answers questions concerning thses farm game birds. It of particular interest to students of wildlife, game and fish technicians and administrators, game breeders and sportsmen.
B045	Pronghorn Antelope By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the antelope. Tells the size of and the most popular ways to prepare for eating.
B047	Quail Research in Arizona Arizona Fish and Game Deparmtent. Steve Gallizioli. Gives detailed information about the habits of the quail.
B048	Rabbits and Squirrels By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the rabbits and squirrels. Tells the size of and most popular hunting grounds.
A048	Readings in Wildlife and Fish Conservation By Louisiana Wildlife and Fisheries Commission. A study designed for an experimental high school course.
P15	Reptiles and Amphibians Singer SVE 1. Toad 2. Box Turtle 3. Alligator 4. Bullfrog 5. Leopard Lizard 6. Spotted Salamander 7. Five-Lined Skink 8. Garter Snake
H056	Saving Our Wildlife Crowell-Collier Press. J. J. McCoy. Illustrated book explains how and why so much American wildlife has been destroyed.
B051	Shooting for the Future By the National Shooting Shooting Sports Foundation, Inc. Distributed by Arizona Game and Fish Deparmtnet. Facts about wildlife and the values of hunting, protecting our wildlife and organized hunting.
P14	Small Animals of Sea and Shore Singer SVE. Teacher guide 1. Sea Anemone 2. Sea Horse 3. Moray Eel 4. Jelly Fish 5. Squid 6. Rock Crab 7. Sponge 8. Stingray
G15	Songbird Dominoes National Wildlife Federation. Grades 3-5.

WILDLIFE ENVIRONMENTS

Cat. No.	Description
G16	Songbird Trading Card Album National Wildlife Federation. Roger Tory Peterson.
R06	Songbirds of America Published by Houghton and Mifflin Company. Dr. Allen and Dr. Kellog. (Album and Record)
C10	Songbirds of North America Copyright 1968. National Wildlife Federation. Forty-eight color illustrations of songbirds of North America with a brief description of each bird.
R04	Sounds of the American Southwest Folkways Recrods and Service Corporation. (Birds, frogs, Insects, javalinas, etc.)
R05	Sounds of the Animals Folkways Records. Audible communication of zoo and farm animals.
R07	Sounds of Insects Folkways Records.
B054	The Terrible Lesson of the Kaibab Copyright 1967. Reprinted from the National Wildlife. James B. Trefethen. Tells how the Kaibab National Forest nearly died and how it finally recovered.
G01	Trading Card Album National Wildlife Federation. Animal trading card album. Roger Tory Peterson.
H062	Unexpected Treasure Copyright 1968. Published by M. Evans and Company. Hope Sawyer Buyukmichi with Hans Fantel. A story of a family who owned a small 250-acre wildlife refuge in New Jersey. There, they live among all the wildlife, trying to preserve it.
B057	Waterfowl By the Arizona Big Game Bulletin. Gives a brief summary on the habits of waterfowl. Tells most popular places to hunt for.
G17	Western Birds Donald Leo Malick. Puzzle with 500 pieces. Grades 4-6.
B058	Western Hawks--What They Look Like in the Air Distributed by National Audubon Society. Pictures of hawks open-winged.

WILDLIFE ENVIRONMENTS

Cat. No.	Description
P25	Wild Animals Singer SVE. 1. Red Fox 2. Cottontail Rabbit 3. White-tailed Deer 4. Striped Skunk 5. Muskrat 6. Gray Squirrel 7. Opossum 8. Woodchuck
B062	Wild Turkey By the Arizona Big Game Bulletin. Gives a brief summary on the habits of wild turkey. Tells the size of and most popular ways to prepare for eating. Best places for hunting also.
S020	Wildlife J. Weston Walch, Publisher. Portland, Maine. Slides with teacer's guide and illustrative poster cards.
D041	Wildlife in America Copyright 1964, 1969. Peter Matthiessen. The first history of man's effect on the fishes, amphibians, reptiles, birds, and mammals of the North American continent. With more than 100 line drawings of the rare, extinct and vanishing species.
B068	Wildlife Habitat Improvement National Audubon Society. Joseph J. Shomon. Wildlife is a renewable natural resource. It can be managed and in certain instances greatly increased.
F026	The Wisdom of Wildness Guidance Associates. Students see wilderness through their own experience and are asked to reevaluate the meaning of progress. Teacher's guide and filmstrips with records.